

FASP ANALYTICAL RESULTS NARRATIVE

1.0 ANALYSIS: Volatile Organics in Soil Gas by FASP Modifications of EPA Methods 8010 and 8020.

2.0 SITE: Circuit Express

3.0 SAMPLES:

A total of 28 soil gas samples were analyzed as follows:

| <u>SAMPLE</u> | <u>COLLECTION DATE</u> | <u>ANALYSIS DATE</u> |
|---------------|------------------------|----------------------|
| H-1 | 06/02/94 | 06/02/94 |
| H-2 | 06/03/94 | 06/03/94 |
| H-3 | 06/02/94 | 06/02/94 |
| H-4 | 06/03/94 | 06/03/94 |
| H-5 | 06/03/94 | 06/03/94 |
| H-6 | 06/03/94 | 06/03/94 |
| H-7 | 06/03/94 | 06/03/94 |
| H-7 D | 06/03/94 | 06/03/94 |
| H-8 | 06/02/94 | 06/02/94 |
| H-9 | 06/02/94 | 06/02/94 |
| H-10 | 06/02/94 | 06/02/94 |
| H-11 | 07/08/94 | 07/08/94 |
| H-12 | 06/03/94 | 06/03/94 |
| H-13 | 06/06/94 | 06/06/94 |
| H-14 | 06/06/94 | 06/06/94 |
| H-15 | 06/06/94 | 06/06/94 |
| H-16 | 06/06/94 | 06/06/94 |
| H-16 D | 06/06/94 | 06/06/94 |
| H-17 | 06/03/94 | 06/03/94 |
| H-17 DUP | 06/03/94 | 06/03/94 |
| H-18 | 07/08/94 | 07/08/94 |
| H-19 | 07/08/94 | 07/08/94 |
| H-20 | 07/08/94 | 07/08/94 |
| H-21 | 07/08/94 | 07/08/94 |
| H-22 | 06/02/94 | 06/02/94 |
| H-23 | 06/03/94 | 06/03/94 |
| H-24 | 06/03/94 | 06/03/94 |
| H-25 | 06/03/94 | 06/03/94 |
| H-26 | 07/08/94 | 07/08/94 |
| H-27 | 07/08/94 | 07/08/94 |

4.0 QUALITY CONTROL

- 4.1 INITIAL CALIBRATION: Initial five point calibrations were performed on 06/01/94, 06/06/94, and 06/28/94 for EPA Method 8010 and 8020 analytes. The FASP quality control (QC) guidelines for percent relative standard deviation (%RSD), which are noted on the calibration summary forms, were met for all target analytes with the exception of dichlordifluormethane/chloromethane on 06/01/94. Average relative response factors (RRF) from the initial calibration analyzed on 06/06/94 were used to calculate analyte concentrations for samples run on that date. (See attached)
- 4.2 CONTINUING CALIBRATION: A continuing calibration (CCAL) standard was analyzed on 06/02/94, 06/03/94 and 07/08/94 for EPA Method 8010 and 8020 analytes. The RRF from the CCAL was used to calculate sample analyte concentrations for the latter dates. The FASP QC criteria for percent difference (% D) was met for all analytes with the exception of carbon tetrachloride on 06/03/94, and dichlordifluoromethane/chloromethane on 07/07/94. (See attached)
- 4.3 INTERNAL STANDARD: An internal standard (I.S.) of 4-bromofluorobenzene was used for both the initial calibrations and continuing calibrations. The relative response factor (RRF) was calculated as follows:

$$\text{RRF} = \frac{(\text{Area target})(\text{conc. I.S.})}{(\text{Area I.S.})(\text{conc. target})}$$

The internal standard was added to every sample, method blank, laboratory control sample, and matrix spike sample analyzed. Target analyte concentrations were calculated as follows:

$$\text{conc. target} = \frac{(\text{area target})(\text{conc. I.S.})}{(\text{area I.S.}) (\text{RRF})}$$

- 4.4 BLANK ANALYSES: Blank analyses were performed on 06/02/94, 06/03/94, 06/06/94, and 07/08/94. None of the blank analyses showed results above the 1.0 ug/L detection limits. However, benzene and toluene were detected in all blank analyses at levels below 1.0 ug/L. The source of the low level benzene and toluene contamination is unknown at this time. (See attached blank summary)

- 4.5 SURROGATE ANALYSES: Surrogate spiking compounds consisting of 1-chloro-2-

bromopropane and fluorobenzene were added to every sample, method blank, laboratory control sample, and matrix spike sample analyzed. Surrogate recovery is used to estimate the adequacy of system performance. All surrogate recoveries for these samples were within the FASP QC criteria. (See attached surrogate recovery summary)

- 4.6 LABORATORY CONTROL SAMPLE: A laboratory control sample (LCS) prepared from a mix of vinyl chloride, carbon tetrachloride, 1,2-dichloroethane, trichloroethylene, 1,2-dichloropropane, cis-1,2-dichloropropene, 1,1,2-trichloroethane, tetrachloroethylene, bromoform, benzene and 1,4-dichlorobenzene was analyzed once every ten samples. The purpose of this QC sample is to determine the validity of the instrument calibration using a separate source standard. All LCS recoveries were within the FASP QC criteria with the exception of carbon tetrachloride, 1,2-dichloropropane, tetrachloroethylene. (See Discussion of results section 5.0)

In addition to the analysis of the LCS mixture described above, a National Institute of Standards and Technology (NIST) traceable gaseous standard consisting of vinyl chloride, methylene chloride 1,1-dichloroethane, chloroform, trichloroethylene, 1,2-dichloropropane, tetrachloroethylene, chlorobenzene, benzene, and toluene was analyzed once every daily sequence. The purpose of the NIST LCS is to determine the validity of the instrument calibration with a second source standard which approximates the sample matrix. All NIST LCS recoveries were within the FASP QC criteria with the exception of vinyl chloride on 06/17/94. (See attached LCS summary)

- 4.7 MATRIX SPIKE AND SPIKE DUPLICATE SAMPLES: A matrix spike and spike duplicate sample was analyzed once every 20 samples. These samples were prepared by spiking a soil gas sample with the LCS mixture. All matrix spike and spike duplicate recoveries met FASP QC criteria. Duplicate relative percent differences (RPD) were also within FASP QC criteria. (See attached matrix spike/matrix spike duplicate summary)

- 4.8 HOLDING TIMES: All holding times (12 hours) were met for these samples.

- 4.9 DATA QUALIFIERS: Included with this data package is a qualifier sheet explaining all data qualifiers.

- 5.0 DISCUSSION OF RESULTS: The results for these samples are generally of good quality and appropriate for screening level uses. The associated QC was acceptable. The failure of the LCS to meet QC guidelines for the recovery of carbon tetrachloride is thought to be due to not achieving high enough temperatures in the ELCD nickel

◆ ICF KAISER

reactor tube. Carbon tetrachloride recoveries were problematic throughout this sampling event. No carbon tetrachloride was detected in any of the samples.

For the initial calibration (ICAL) performed on 06/01/94, carbon tetrachloride received only a three point calibration and dichlorodifluoromethane/chloromethane received only a four point calibration. Thus the detection limit for these analytes on 06/01/94 is 5.0 ug/L, 2.0 ug/L respectively. For the ICAL analyzed on 06/06/94 carbon tetrachloride received only a four point calibration thus giving a detection limit of 2.0 ug/L. For the ICAL analyzed on 06/28/94, carbon tetrachloride received a three point calibration thus giving a detection limit of 5.0 ug/L

In the calibration of the instrument, the response factors for the coeluting pairs dichlorodifluoromethane/chloromethane and bromomethane/chloroethane were calculated by either summing the areas of the peaks or by re-integrating the peaks. If a reintegration was performed, the new areas are attached to the standard chromatograms.

Confirmation of qualitative results was not performed and all sample results reported are based on single column analysis.

QUALIFIER SHEET

| | |
|----|---|
| B | This flag is used when the analyte is found in the associated method blank as well as in the sample, indicating possible contamination. |
| E | This flag indicates that the calculated concentration for an analyte exceeds the linear calibration range, possibly resulting in an artificially low result. |
| D | This flag indicates that an analyte is quantitated from a secondary dilution of the sample or sample extract. |
| J | This flag indicates an estimated value. It is used when the analyte is only tentatively identified or is present below the FMDL. |
| JI | This flag indicates an estimated value. It is used when an analyte in the initial calibration exceeds the average percent relative standard deviation (%RSD) 30%. |
| JC | This flag indicates an estimated value. It is used when an analyte in the continuing calibration exceeds the percent difference (%D) 25%. |
| JA | This flag indicates an estimated value. It is used when an analyte in the audit cylinder exceeds the percent recovery 50%-150%. |
| JH | This Flag indicates that the 12 hour holding time for a given sample has been exceeded, which may possibly ensue in an artificially low result. |
| JL | This flag indicates an estimated value. It is used when an analyte in the laboratory control sample exceeds the percent recovery 70%-125%. |

EPA METHOD 8010 INITIAL CALIBRATION DATA

FASP Method 8010 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 01, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | %RSD | QC LIMITS | |
|---------------------------|----------------|-----------------|---------------------------------|----------|----------|----------|----------|----------------|----------|----------|--------------|---------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | | |
| Dichlorodifluoromethane/ | 6.48 | 6.43 | 6.53 | --- | 6.93E-01 | 6.72E-01 | 5.25E-02 | 1.17E+00 | 6.47E-01 | 3.97E-01 | 61 | +/- 50% |
| Chloromethane | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | +/- 50% |
| Vinyl chloride | 6.86 | 6.81 | 6.91 | 1.62E+00 | 1.55E+00 | 1.62E+00 | 3.17E-01 | 2.21E+00 | 1.46E+00 | 6.20E-01 | 42 | +/- 50% |
| Bromomethane/Chloroethane | 8.13 | 8.07 | 8.19 | 2.87E+00 | 2.58E+00 | 2.60E+00 | 1.03E+00 | 3.03E+00 | 2.42E+00 | 7.17E-01 | 30 | +/- 50% |
| Trichlorofluoromethane | 9 | 8.93 | 9.07 | --- | --- | 1.53E+00 | 8.84E-01 | 1.83E+00 | 1.42E+00 | 3.96E-01 | 28 | +/- 50% |
| 1,1-Dichloroethene | 10.64 | 10.56 | 10.72 | 2.55E+00 | 1.51E+00 | 2.40E+00 | 1.67E+00 | 2.80E+00 | 2.18E+00 | 4.84E-01 | 22 | +/- 30% |
| Methylene Chloride | 11.99 | 11.90 | 12.08 | 3.96E+00 | 2.39E+00 | 3.55E+00 | 2.97E+00 | 3.79E+00 | 3.33E+00 | 5.81E-01 | 17 | +/- 30% |
| trans-1,2-Dichloroethene | 12.88 | 12.78 | 12.98 | 3.32E+00 | 3.62E+00 | 2.95E+00 | 2.46E+00 | 3.19E+00 | 3.11E+00 | 3.90E-01 | 13 | +/- 30% |
| 1,1-Dichloroethane | 14.13 | 14.02 | 14.24 | 2.84E+00 | 3.18E+00 | 2.59E+00 | 2.23E+00 | 2.66E+00 | 2.70E+00 | 3.09E-01 | 11 | +/- 30% |
| cis-1,2-Dichloroethene | 15.92 | 15.80 | 16.04 | 2.93E+00 | 2.73E+00 | 2.59E+00 | 2.43E+00 | 2.78E+00 | 2.69E+00 | 1.70E-01 | 6 | +/- 30% |
| Chloroform | 16.92 | 16.79 | 17.05 | 2.18E+00 | 2.53E+00 | 2.24E+00 | 2.09E+00 | 2.21E+00 | 2.25E+00 | 1.48E-01 | 7 | +/- 30% |
| 1,1,1-Trichloroethane | 17.60 | 17.47 | 17.73 | 3.55E+00 | 2.28E+00 | 3.68E+00 | 3.63E+00 | 4.10E+00 | 3.45E+00 | 6.14E-01 | 18 | +/- 30% |
| Carbon Tetrachloride | 18.27 | 18.13 | 18.41 | --- | --- | 8.47E-01 | 9.95E-01 | 1.38E+00 | 1.07E+00 | 2.26E-01 | 21 | +/- 30% |
| 1,2-Dichloroethane | 19.04 | 18.90 | 19.18 | 3.70E+00 | 3.46E+00 | 3.22E+00 | 2.29E+00 | 3.19E+00 | 3.17E+00 | 4.80E-01 | 15 | +/- 30% |
| Trichloroethene | 21.48 | 21.32 | 21.64 | 3.80E+00 | 3.71E+00 | 3.75E+00 | 3.60E+00 | 4.04E+00 | 3.78E+00 | 1.45E-01 | 4 | +/- 30% |
| 1,2-Dichloropropane | 22.34 | 22.17 | 22.51 | 2.93E+00 | 2.86E+00 | 2.85E+00 | 2.78E+00 | 2.97E+00 | 2.88E+00 | 6.81E-02 | 2 | +/- 30% |
| Bromodichloromethane | 23.46 | 23.28 | 23.63 | 1.93E+00 | 2.05E+00 | 2.12E+00 | 2.25E+00 | 2.45E+00 | 2.16E+00 | 1.78E-01 | 8 | +/- 30% |
| cis-1,3-Dichloropropene | 25.40 | 25.21 | 25.59 | 1.95E+00 | 1.97E+00 | 1.97E+00 | 2.04E+00 | 2.15E+00 | 2.02E+00 | 7.24E-02 | 4 | +/- 30% |
| trans-1,3-Dichloropropene | 28.06 | 27.85 | 28.27 | 1.27E+00 | 1.32E+00 | 1.32E+00 | 1.38E+00 | 1.40E+00 | 1.34E+00 | 4.84E-02 | 4 | +/- 30% |
| 1-Chloro-2-bromopropane | 28.52 | 28.31 | 28.73 | 1.81E+00 | 1.78E+00 | 1.77E+00 | 1.84E+00 | 1.92E+00 | 1.82E+00 | 5.18E-02 | 3 | +/- 30% |
| -surrogate | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2-Trichloroethane | 28.84 | 28.62 | 29.05 | 3.80E+00 | 3.71E+00 | 3.68E+00 | 3.85E+00 | 3.92E+00 | 3.79E+00 | 9.00E-02 | 2 | +/- 30% |
| Tetrachloroethene | 29.53 | 29.31 | 29.75 | 4.32E+00 | 3.79E+00 | 3.96E+00 | 4.00E+00 | 4.11E+00 | 4.04E+00 | 1.76E-01 | 4 | +/- 30% |
| Dibromochloromethane | 30.36 | 30.13 | 30.59 | 1.59E+00 | 1.59E+00 | 1.71E+00 | 1.90E+00 | 2.04E+00 | 1.77E+00 | 1.78E-01 | 10 | +/- 30% |
| Chlorobenzene | 32.43 | 32.19 | 32.67 | 1.50E+00 | 1.54E+00 | 1.47E+00 | 1.55E+00 | 1.55E+00 | 1.52E+00 | 3.36E-02 | 2 | +/- 30% |
| Bromoform | 34.79 | 34.53 | 35.05 | 1.07E+00 | 1.21E+00 | 1.41E+00 | 1.48E+00 | 1.64E+00 | 1.36E+00 | 1.53E-01 | 11 | +/- 30% |
| 4-Bromofluorobenzene | 35.65 | 35.38 | 35.92 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2,2-Tetrachloroethane | 35.99 | 35.72 | 36.26 | 3.73E+00 | 3.33E+00 | 3.33E+00 | 3.28E+00 | 3.35E+00 | 3.40E+00 | 1.67E-01 | 5 | +/- 30% |
| 1,3-Dichlorobenzene | 38.44 | 38.15 | 38.73 | 2.48E+00 | 2.27E+00 | 2.25E+00 | 2.21E+00 | 2.22E+00 | 2.29E+00 | 1.01E-01 | 4 | +/- 30% |
| 1,4-Dichlorobenzene | 38.66 | 38.37 | 38.95 | 3.06E+00 | 2.81E+00 | 2.82E+00 | 2.76E+00 | 2.71E+00 | 2.83E+00 | 1.23E-01 | 4 | +/- 30% |
| 1,2-Dichlorobenzene | 39.66 | 39.36 | 39.96 | 2.79E+00 | 2.57E+00 | 2.58E+00 | 2.46E+00 | 2.51E+00 | 2.58E+00 | 1.12E-01 | 4 | +/- 30% |

FASP Method 8010 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 01, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | AREAS | | | | | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | %RSD | QC LIMITS | |
|---------------------------|----------------|-----------------|-------|--------|--------|--------|---------|---------------------------------|----------|----------|----------|----------|----------------|----------|----------|--------------|---------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | | |
| Dichlorodifluoromethane/ | 6.48 | 6.43 | 6.53 | --- | 62521 | 158844 | 26458 | 1165416 | --- | 6.93E-01 | 6.72E-01 | 5.25E-02 | 1.17E+00 | 6.47E-01 | 3.97E-01 | 61 | +/- 50% |
| Chloromethane | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Vinyl chloride | 6.86 | 6.81 | 6.91 | 68741 | 139578 | 383701 | 159621 | 2192705 | 1.62E+00 | 1.55E+00 | 1.62E+00 | 3.17E-01 | 2.21E+00 | 1.46E+00 | 6.20E-01 | 42 | +/- 50% |
| Bromomethane/Chloroethane | 8.13 | 8.07 | 8.19 | 121420 | 233031 | 615090 | 518070 | 3012077 | 2.87E+00 | 2.58E+00 | 2.60E+00 | 1.03E+00 | 3.03E+00 | 2.42E+00 | 7.17E-01 | 30 | +/- 50% |
| Trichlorodifluoromethane | 9 | 8.93 | 9.07 | --- | 362548 | 445368 | 1820842 | --- | --- | 1.53E+00 | 8.84E-01 | 1.83E+00 | 1.42E+00 | 3.96E-01 | 28 | +/- 50% | |
| 1,1-Dichloroethene | 10.64 | 10.56 | 10.72 | 107883 | 136435 | 566550 | 841385 | 2780190 | 2.55E+00 | 1.51E+00 | 2.40E+00 | 1.67E+00 | 2.80E+00 | 2.18E+00 | 4.84E-01 | 22 | +/- 30% |
| Methylene Chloride | 11.99 | 11.90 | 12.08 | 167754 | 215467 | 840480 | 1494816 | 3773307 | 3.96E+00 | 2.39E+00 | 3.55E+00 | 2.97E+00 | 3.79E+00 | 3.33E+00 | 5.81E-01 | 17 | +/- 30% |
| trans-1,2-Dichloroethene | 12.88 | 12.78 | 12.98 | 140772 | 326895 | 697937 | 1241779 | 3176034 | 3.32E+00 | 3.62E+00 | 2.95E+00 | 2.46E+00 | 3.19E+00 | 3.11E+00 | 3.90E-01 | 13 | +/- 30% |
| 1,1-Dichloroethane | 14.13 | 14.02 | 14.24 | 120073 | 286451 | 611340 | 1125753 | 2649501 | 2.84E+00 | 3.18E+00 | 2.59E+00 | 2.23E+00 | 2.66E+00 | 2.70E+00 | 3.09E-01 | 11 | +/- 30% |
| cis-1,2-Dichloroethene | 15.92 | 15.80 | 16.04 | 124129 | 246726 | 611303 | 1226472 | 2760195 | 2.93E+00 | 2.73E+00 | 2.59E+00 | 2.43E+00 | 2.78E+00 | 2.69E+00 | 1.70E-01 | 6 | +/- 30% |
| Chloroform | 16.92 | 16.79 | 17.05 | 92312 | 228081 | 528803 | 1053508 | 2199085 | 2.18E+00 | 2.53E+00 | 2.24E+00 | 2.09E+00 | 2.21E+00 | 2.25E+00 | 1.48E-01 | 7 | +/- 30% |
| 1,1,1-Trichloroethane | 17.60 | 17.47 | 17.73 | 150213 | 205799 | 870585 | 1829009 | 4076562 | 3.55E+00 | 2.28E+00 | 3.68E+00 | 3.63E+00 | 4.10E+00 | 3.45E+00 | 6.14E-01 | 18 | +/- 30% |
| Carbon Tetrachloride | 18.27 | 18.13 | 18.41 | --- | 200238 | 501326 | 1374967 | --- | --- | 8.47E-01 | 9.95E-01 | 1.38E+00 | 1.07E+00 | 2.26E-01 | 21 | +/- 30% | |
| 1,2-Dichloroethane | 19.04 | 18.90 | 19.18 | 156755 | 312562 | 762186 | 1152302 | 3168665 | 3.70E+00 | 3.46E+00 | 3.22E+00 | 2.29E+00 | 3.19E+00 | 3.17E+00 | 4.80E-01 | 15 | +/- 30% |
| Trichloroethene | 21.48 | 21.32 | 21.64 | 160902 | 334583 | 885924 | 1816581 | 4016898 | 3.80E+00 | 3.71E+00 | 3.75E+00 | 3.60E+00 | 4.04E+00 | 3.78E+00 | 1.45E-01 | 4 | +/- 30% |
| 1,2-Dichloropropane | 22.34 | 22.17 | 22.51 | 124128 | 258258 | 673140 | 1399832 | 2955707 | 2.93E+00 | 2.86E+00 | 2.85E+00 | 2.78E+00 | 2.97E+00 | 2.88E+00 | 6.81E-02 | 2 | +/- 30% |
| Bromodichloromethane | 23.46 | 23.28 | 23.63 | 81775 | 184965 | 501305 | 1132086 | 2439111 | 1.93E+00 | 2.05E+00 | 2.12E+00 | 2.25E+00 | 2.45E+00 | 2.16E+00 | 1.78E-01 | 8 | +/- 30% |
| cis-1,3-Dichloropropene | 25.40 | 25.21 | 25.59 | 82708 | 178175 | 466913 | 1029969 | 2138508 | 1.95E+00 | 1.97E+00 | 1.97E+00 | 2.04E+00 | 2.15E+00 | 2.02E+00 | 7.24E-02 | 4 | +/- 30% |
| trans-1,3-Dichloropropene | 28.06 | 27.85 | 28.27 | 53680 | 118735 | 312979 | 697157 | 1393690 | 1.27E+00 | 1.32E+00 | 1.32E+00 | 1.38E+00 | 1.40E+00 | 1.34E+00 | 4.84E-02 | 4 | +/- 30% |
| 1-Chloro-2-bromopropane | 28.52 | 28.31 | 28.73 | 76834 | 160498 | 419091 | 927363 | 1904717 | 1.81E+00 | 1.78E+00 | 1.77E+00 | 1.84E+00 | 1.92E+00 | 1.82E+00 | 5.18E-02 | 3 | +/- 30% |
| -surrogate | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1,1,2-Trichloroethane | 28.84 | 28.62 | 29.05 | 160835 | 334307 | 870484 | 1939871 | 3902329 | 3.80E+00 | 3.71E+00 | 3.68E+00 | 3.85E+00 | 3.92E+00 | 3.79E+00 | 9.00E-02 | 2 | +/- 30% |
| Tetrachloroethene | 29.53 | 29.31 | 29.75 | 183122 | 342013 | 937309 | 2071161 | 4087440 | 4.32E+00 | 3.79E+00 | 3.96E+00 | 4.00E+00 | 4.11E+00 | 4.04E+00 | 1.76E-01 | 4 | +/- 30% |
| Dibromo-chloromethane | 30.36 | 30.13 | 30.59 | 67381 | 143797 | 403963 | 957574 | 2031043 | 1.59E+00 | 1.59E+00 | 1.71E+00 | 1.90E+00 | 2.04E+00 | 1.77E+00 | 1.78E-01 | 10 | +/- 30% |
| Chlorobenzene | 32.43 | 32.19 | 32.67 | 63319 | 138713 | 346728 | 779540 | 1545172 | 1.50E+00 | 1.54E+00 | 1.47E+00 | 1.55E+00 | 1.52E+00 | 1.36E+00 | 1.53E-01 | 2 | +/- 30% |
| Bromoform | 34.79 | 34.53 | 35.05 | 45401 | 109397 | 332668 | 745786 | 1627930 | 1.07E+00 | 1.21E+00 | 1.41E+00 | 1.48E+00 | 1.64E+00 | 1.36E+00 | 1.53E-01 | 11 | +/- 30% |
| 4-Bromofluorobenzene | 35.65 | 35.38 | 35.92 | 635194 | 676652 | 709323 | 756110 | 745749 | --- | --- | --- | --- | --- | --- | --- | --- | |
| -Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1,1,2,2-Tetrachloroethane | 35.99 | 35.72 | 36.26 | 158102 | 300539 | 787703 | 1651690 | 3326948 | 3.73E+00 | 3.33E+00 | 3.33E+00 | 3.28E+00 | 3.35E+00 | 3.40E+00 | 1.67E-01 | 5 | +/- 30% |
| 1,3-Dichlorobenzene | 38.44 | 38.15 | 38.73 | 105151 | 204614 | 532235 | 1112778 | 2204242 | 2.48E+00 | 2.27E+00 | 2.25E+00 | 2.21E+00 | 2.22E+00 | 2.29E+00 | 1.01E-01 | 4 | +/- 30% |
| 1,4-Dichlorobenzene | 38.66 | 38.37 | 38.95 | 129758 | 253242 | 665724 | 1389475 | 2693573 | 3.06E+00 | 2.81E+00 | 2.82E+00 | 2.76E+00 | 2.71E+00 | 2.83E+00 | 1.23E-01 | 4 | +/- 30% |
| 1,2-Dichlorobenzene | 39.66 | 39.36 | 39.96 | 118211 | 231547 | 610280 | 1242154 | 2500070 | 2.79E+00 | 2.57E+00 | 2.58E+00 | 2.46E+00 | 2.51E+00 | 2.58E+00 | 1.12E-01 | 4 | +/- 30% |

FASP Method 8010 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 06, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | %RSD | QC LIMITS |
|---------------------------|----------------|-----------------|---------------------------------|----------|----------|----------|----------|----------------|----------|----------|--------------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | |
| Dichlorodifluoromethane/ | 5.81 | 5.77 | 5.85 | 9.62E-01 | 7.18E-01 | 7.24E-01 | 3.68E-01 | 5.32E-01 | 6.61E-01 | 2.00E-01 | 30 +/- 50% |
| Chloromethane | --- | --- | --- | -- | -- | -- | -- | -- | -- | -- | +/- 50% |
| Vinyl chloride | 6.76 | 6.71 | 6.81 | 1.75E+00 | 2.07E+00 | 1.85E+00 | 1.37E+00 | 1.70E+00 | 1.75E+00 | 2.25E-01 | 13 +/- 50% |
| Bromomethane/Chloroethane | 7.93 | 7.87 | 7.99 | 2.83E+00 | 3.23E+00 | 2.85E+00 | 2.34E+00 | 2.62E+00 | 2.77E+00 | 2.93E-01 | 11 +/- 50% |
| Trichlorodifluoromethane | 8.97 | 8.90 | 9.04 | 1.86E+00 | 2.13E+00 | 1.74E+00 | 1.39E+00 | 1.49E+00 | 1.72E+00 | 2.63E-01 | 15 +/- 50% |
| 1,1-Dichloroethene | 10.37 | 10.29 | 10.45 | 2.32E+00 | 2.83E+00 | 2.67E+00 | 2.45E+00 | 2.53E+00 | 2.56E+00 | 1.78E-01 | 7 +/- 30% |
| Methylene Chloride | 11.64 | 11.55 | 11.73 | 3.41E+00 | 3.92E+00 | 3.64E+00 | 3.35E+00 | 3.45E+00 | 3.56E+00 | 2.06E-01 | 6 +/- 30% |
| trans-1,2-Dichloroethene | 12.47 | 12.38 | 12.56 | 3.11E+00 | 3.31E+00 | 3.06E+00 | 2.77E+00 | 2.85E+00 | 3.02E+00 | 1.95E-01 | 6 +/- 30% |
| 1,1-Dichloroethane | 13.69 | 13.59 | 13.79 | 2.45E+00 | 2.78E+00 | 2.66E+00 | 2.45E+00 | 2.46E+00 | 2.56E+00 | 1.36E-01 | 5 +/- 30% |
| cis-1,2-Dichloroethene | 15.38 | 15.26 | 15.49 | 2.26E+00 | 2.63E+00 | 2.48E+00 | 2.26E+00 | 2.35E+00 | 2.40E+00 | 1.44E-01 | 6 +/- 30% |
| Chloroform | 16.38 | 16.26 | 16.50 | 2.03E+00 | 2.61E+00 | 2.24E+00 | 2.13E+00 | 2.25E+00 | 2.26E+00 | 1.96E-01 | 9 +/- 30% |
| 1,1,1-Trichloroethane | 17.00 | 16.87 | 17.13 | 3.15E+00 | 3.97E+00 | 3.58E+00 | 3.59E+00 | 3.74E+00 | 3.61E+00 | 2.67E-01 | 7 +/- 30% |
| Carbon Tetrachloride | 17.62 | 17.49 | 17.75 | -- | 9.49E-01 | 9.93E-01 | 1.20E+00 | 1.86E+00 | 1.25E+00 | 3.63E-01 | 29 +/- 30% |
| 1,2-Dichloroethane | 18.32 | 18.18 | 18.46 | 2.78E+00 | 3.67E+00 | 3.20E+00 | 2.95E+00 | 2.73E+00 | 3.07E+00 | 3.46E-01 | 11 +/- 30% |
| Trichloroethene | 20.77 | 20.61 | 20.92 | 3.25E+00 | 3.95E+00 | 3.71E+00 | 3.49E+00 | 2.93E+00 | 3.47E+00 | 3.56E-01 | 10 +/- 30% |
| 1,2-Dichloropropane | 21.63 | 21.47 | 21.79 | 2.54E+00 | 3.24E+00 | 2.81E+00 | 2.70E+00 | 2.33E+00 | 2.72E+00 | 3.04E-01 | 11 +/- 30% |
| Bromodichloromethane | 22.73 | 22.56 | 22.90 | 1.70E+00 | 2.29E+00 | 2.12E+00 | 2.16E+00 | 2.17E+00 | 2.09E+00 | 2.02E-01 | 10 +/- 30% |
| cis-1,3-Dichloropropene | 24.58 | 24.40 | 24.76 | 1.67E+00 | 2.14E+00 | 1.80E+00 | 1.79E+00 | 1.88E+00 | 1.86E+00 | 1.57E-01 | 8 +/- 30% |
| trans-1,3-Dichloropropene | 27.22 | 27.02 | 27.42 | 1.11E+00 | 1.36E+00 | 1.22E+00 | 1.15E+00 | 1.33E+00 | 1.23E+00 | 9.82E-02 | 8 +/- 30% |
| 1-Chloro-2-bromopropane | 27.74 | 27.53 | 27.95 | 1.64E+00 | 1.68E+00 | 1.68E+00 | 1.68E+00 | 1.60E+00 | 1.66E+00 | 3.34E-02 | 2 +/- 30% |
| -surrogate | --- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1,1,2-Trichloroethane | 28.07 | 27.86 | 28.28 | 3.73E+00 | 3.79E+00 | 3.64E+00 | 3.40E+00 | 3.36E+00 | 3.58E+00 | 1.74E-01 | 5 +/- 30% |
| Tetrachloroethene | 28.81 | 28.59 | 29.02 | 4.21E+00 | 4.10E+00 | 3.86E+00 | 3.62E+00 | 3.66E+00 | 3.89E+00 | 2.35E-01 | 6 +/- 30% |
| Dibromochloromethane | 29.69 | 29.47 | 29.91 | 1.45E+00 | 1.61E+00 | 1.74E+00 | 1.75E+00 | 1.87E+00 | 1.68E+00 | 1.44E-01 | 9 +/- 30% |
| Chlorobenzene | 31.83 | 31.59 | 32.07 | 1.49E+00 | 1.59E+00 | 1.52E+00 | 1.43E+00 | 1.44E+00 | 1.49E+00 | 5.68E-02 | 4 +/- 30% |
| Bromoform | 34.22 | 33.96 | 34.47 | 1.01E+00 | 1.25E+00 | 1.37E+00 | 1.33E+00 | 1.44E+00 | 1.28E+00 | 6.90E-02 | 5 +/- 30% |
| 4-Bromofluorobenzene | 35.1 | 34.84 | 35.36 | -- | -- | -- | -- | -- | -- | -- | -- |
| -Internal Standard | --- | --- | --- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1,1,2,2-Tetrachloroethane | 35.44 | 35.17 | 35.70 | 3.55E+00 | 3.41E+00 | 2.92E+00 | 2.71E+00 | 2.69E+00 | 3.06E+00 | 3.57E-01 | 12 +/- 30% |
| 1,3-Dichlorobenzene | 37.81 | 37.53 | 38.09 | 2.23E+00 | 2.35E+00 | 2.20E+00 | 2.11E+00 | 2.09E+00 | 2.20E+00 | 9.30E-02 | 4 +/- 30% |
| 1,4-Dichlorobenzene | 38.03 | 37.74 | 38.31 | 2.99E+00 | 2.98E+00 | 2.79E+00 | 2.57E+00 | 2.51E+00 | 2.77E+00 | 2.00E-01 | 7 +/- 30% |
| 1,2-Dichlorobenzene | 38.98 | 38.69 | 39.27 | 2.44E+00 | 2.63E+00 | 2.60E+00 | 2.32E+00 | 2.29E+00 | 2.46E+00 | 1.39E-01 | 6 +/- 30% |

FASP Method 8010 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 06, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | AREAS | | | | | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | %RSD | QC LIMITS | |
|--|-------------|-----------------|-------|--------|--------|--------|---------|---------------------------------|----------|----------|----------|----------|-------------|----------|----------|-----------|---------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | | |
| Dichlorodifluoromethane/ Chloromethane | 5.81 | 5.77 | 5.85 | 56936 | 74768 | 175267 | 169259 | 473969 | 9.62E-01 | 7.18E-01 | 7.24E-01 | 3.68E-01 | 5.32E-01 | 6.61E-01 | 2.00E-01 | 30 | +/- 50% |
| Vinyl chloride | 6.76 | 6.71 | 6.81 | 103287 | 215204 | 446834 | 631836 | 1512470 | 1.75E+00 | 2.07E+00 | 1.85E+00 | 1.37E+00 | 1.70E+00 | 1.75E+00 | 2.25E-01 | 13 | +/- 50% |
| Bromomethane/Chloroethane | 7.93 | 7.87 | 7.99 | 167653 | 336243 | 689103 | 1076947 | 2331037 | 2.83E+00 | 3.23E+00 | 2.85E+00 | 2.34E+00 | 2.62E+00 | 2.77E+00 | 2.93E-01 | 11 | +/- 50% |
| Trichlorofluoromethane | 8.97 | 8.90 | 9.04 | 110189 | 221529 | 422425 | 640230 | 1331292 | 1.86E+00 | 2.13E+00 | 1.74E+00 | 1.39E+00 | 1.49E+00 | 1.72E+00 | 2.63E-01 | 15 | +/- 50% |
| 1,1-Dichloroethene | 10.37 | 10.29 | 10.45 | 137316 | 295061 | 646560 | 1125425 | 2254229 | 2.32E+00 | 2.83E+00 | 2.67E+00 | 2.45E+00 | 2.53E+00 | 2.56E+00 | 1.78E-01 | 7 | +/- 30% |
| Methylene Chloride | 11.64 | 11.55 | 11.73 | 201892 | 408354 | 881408 | 1543300 | 3078028 | 3.41E+00 | 3.92E+00 | 3.64E+00 | 3.35E+00 | 3.45E+00 | 3.56E+00 | 2.06E-01 | 6 | +/- 30% |
| trans-1,2-Dichloroethene | 12.47 | 12.38 | 12.56 | 184166 | 344882 | 741088 | 1272816 | 2539843 | 3.11E+00 | 3.31E+00 | 3.06E+00 | 2.77E+00 | 2.85E+00 | 3.02E+00 | 1.95E-01 | 6 | +/- 30% |
| 1,1-Dichloroethane | 13.69 | 13.59 | 13.79 | 145218 | 289162 | 645098 | 1127162 | 2188368 | 2.45E+00 | 2.78E+00 | 2.66E+00 | 2.45E+00 | 2.46E+00 | 2.56E+00 | 1.36E-01 | 5 | +/- 30% |
| cis-1,2-Dichloroethene | 15.38 | 15.26 | 15.49 | 133868 | 274313 | 600277 | 1038105 | 2094356 | 2.26E+00 | 2.63E+00 | 2.48E+00 | 2.26E+00 | 2.35E+00 | 2.40E+00 | 1.44E-01 | 6 | +/- 30% |
| Chloroform | 16.38 | 16.26 | 16.50 | 120314 | 272010 | 543392 | 981179 | 2007944 | 2.03E+00 | 2.61E+00 | 2.24E+00 | 2.13E+00 | 2.25E+00 | 2.26E+00 | 1.96E-01 | 9 | +/- 30% |
| 1,1,1-Trichloroethane | 17.00 | 16.87 | 17.13 | 186562 | 413540 | 866452 | 1650936 | 3332083 | 3.15E+00 | 3.97E+00 | 3.58E+00 | 3.59E+00 | 3.74E+00 | 3.61E+00 | 2.67E-01 | 7 | +/- 30% |
| Carbon Tetrachloride | 17.62 | 17.49 | 17.75 | --- | 98788 | 240371 | 552655 | 1655736 | --- | 9.49E-01 | 9.93E-01 | 1.20E+00 | 1.86E+00 | 1.25E+00 | 3.63E-01 | 29 | +/- 30% |
| 1,1,2-Dichloroethane | 18.32 | 18.18 | 18.46 | 164561 | 382574 | 775929 | 1358412 | 2431038 | 2.78E+00 | 3.67E+00 | 3.20E+00 | 2.95E+00 | 2.73E+00 | 3.07E+00 | 3.46E-01 | 11 | +/- 30% |
| Trichloroethene | 20.77 | 20.61 | 20.92 | 192542 | 411614 | 889090 | 1607592 | 2608702 | 3.25E+00 | 3.95E+00 | 3.71E+00 | 3.49E+00 | 2.93E+00 | 3.47E+00 | 3.56E-01 | 10 | +/- 30% |
| 1,1,2-Dichloropropane | 21.63 | 21.47 | 21.79 | 150450 | 337580 | 680041 | 1240121 | 2081193 | 2.54E+00 | 3.24E+00 | 2.81E+00 | 2.70E+00 | 2.33E+00 | 2.72E+00 | 3.04E-01 | 11 | +/- 30% |
| Bromodichloromethane | 22.73 | 22.56 | 22.90 | 100630 | 238658 | 514574 | 992887 | 1930585 | 1.70E+00 | 2.29E+00 | 2.12E+00 | 2.16E+00 | 2.17E+00 | 2.09E+00 | 2.02E-01 | 10 | +/- 30% |
| cis-1,3-Dichloropropene | 24.58 | 24.40 | 24.76 | 98565 | 222514 | 436939 | 823724 | 1673859 | 1.67E+00 | 2.14E+00 | 1.80E+00 | 1.79E+00 | 1.88E+00 | 1.86E+00 | 1.57E-01 | 8 | +/- 30% |
| trans-1,3-Dichloropropene | 27.22 | 27.07 | 27.42 | 65762 | 141852 | 294445 | 529853 | 1187446 | 1.11E+00 | 1.36E+00 | 1.22E+00 | 1.15E+00 | 1.33E+00 | 1.23E+00 | 9.82E-02 | 8 | +/- 30% |
| 1-Chloro-2-bromopropane | 27.74 | 27.53 | 27.95 | 96856 | 175365 | 406776 | 773340 | 1425327 | 1.64E+00 | 1.68E+00 | 1.68E+00 | 1.68E+00 | 1.60E+00 | 1.66E+00 | 3.34E-02 | 2 | +/- 30% |
| -surrogate | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1,1,2-Trichloroethane | 28.07 | 27.86 | 28.28 | 220743 | 394628 | 881114 | 1563123 | 2998233 | 3.73E+00 | 3.79E+00 | 3.64E+00 | 3.40E+00 | 3.36E+00 | 3.58E+00 | 1.74E-01 | 5 | +/- 30% |
| Tetrachloroethene | 28.81 | 28.59 | 29.02 | 249297 | 426732 | 935530 | 1666277 | 3260913 | 4.21E+00 | 4.10E+00 | 3.86E+00 | 3.62E+00 | 3.66E+00 | 3.89E+00 | 2.35E-01 | 6 | +/- 30% |
| Dibromo-chloromethane | 29.69 | 29.47 | 29.91 | 85532 | 167299 | 420952 | 805343 | 1663248 | 1.45E+00 | 1.61E+00 | 1.74E+00 | 1.75E+00 | 1.87E+00 | 1.68E+00 | 1.44E-01 | 9 | +/- 30% |
| Chlorobenzene | 31.83 | 31.59 | 32.07 | 88112 | 165099 | 367225 | 655859 | 1287202 | 1.49E+00 | 1.59E+00 | 1.52E+00 | 1.43E+00 | 1.44E+00 | 1.49E+00 | 5.68E-02 | 4 | +/- 30% |
| Bromoform | 34.22 | 33.96 | 34.47 | 59934 | 129857 | 331372 | 612211 | 1282284 | 1.01E+00 | 1.25E+00 | 1.37E+00 | 1.33E+00 | 1.44E+00 | 1.28E+00 | 6.90E-02 | 5 | +/- 30% |
| 4-Bromofluorobenzene | 35.1 | 34.84 | 35.36 | 887329 | 780806 | 726541 | 690120 | 668533 | --- | --- | --- | --- | --- | --- | --- | --- | |
| -Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1,1,2,2-Tetrachloroethane | 35.44 | 35.17 | 35.70 | 209875 | 354944 | 707202 | 1247275 | 2398371 | 3.55E+00 | 3.41E+00 | 2.92E+00 | 2.71E+00 | 2.69E+00 | 3.06E+00 | 3.57E-01 | 12 | +/- 30% |
| 1,3-Dichlorobenzene | 37.81 | 37.53 | 38.09 | 131821 | 244956 | 531788 | 972666 | 1864494 | 2.23E+00 | 2.35E+00 | 2.20E+00 | 2.11E+00 | 2.09E+00 | 2.20E+00 | 9.30E-02 | 4 | +/- 30% |
| 1,4-Dichlorobenzene | 38.03 | 37.74 | 38.31 | 176941 | 310315 | 674482 | 1183118 | 2239514 | 2.99E+00 | 2.98E+00 | 2.79E+00 | 2.57E+00 | 2.51E+00 | 2.77E+00 | 2.00E-01 | 7 | +/- 30% |
| 1,2-Dichlorobenzene | 38.98 | 38.69 | 39.27 | 144253 | 273501 | 630182 | 1069535 | 2038937 | 2.44E+00 | 2.63E+00 | 2.60E+00 | 2.32E+00 | 2.29E+00 | 2.46E+00 | 1.39E-01 | 6 | +/- 30% |

FASP Method 8010 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 28, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | %RSD | QC LIMITS |
|---------------------------|----------------|-----------------|---------------------------------|----------|----------|----------|----------|----------------|----------|----------|--------------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | |
| Dichlorodifluoromethane/ | 6.50 | 6.45 | 6.55 | 9.86E-01 | 5.76E-01 | 6.15E-01 | 6.12E-01 | 6.99E-01 | 6.98E-01 | 1.50E-01 | 21 +/- 50% |
| Chloromethane | ----- | ----- | ----- | --- | --- | --- | --- | --- | --- | --- | +/- 50% |
| Vinyl chloride | 7.57 | 7.51 | 7.63 | 2.67E+00 | 2.74E+00 | 2.21E+00 | 2.41E+00 | 2.22E+00 | 2.45E+00 | 2.21E-01 | 9 +/- 50% |
| Bromomethane/Chloroethane | 8.83 | 8.76 | 8.90 | 2.91E+00 | 2.62E+00 | 2.00E+00 | 2.17E+00 | 1.95E+00 | 2.33E+00 | 3.75E-01 | 16 +/- 50% |
| Trichlorofluoromethane | 9.79 | 9.72 | 9.86 | 1.36E+00 | 1.82E+00 | 1.67E+00 | 1.76E+00 | 1.49E+00 | 1.62E+00 | 1.72E-01 | 11 +/- 50% |
| 1,1-Dichloroethene | 11.47 | 11.38 | 11.56 | 3.24E+00 | 3.91E+00 | 3.19E+00 | 3.43E+00 | 2.79E+00 | 3.31E+00 | 3.63E-01 | 11 +/- 30% |
| Methylene Chloride | 12.79 | 12.69 | 12.89 | 4.89E+00 | 5.12E+00 | 3.97E+00 | 4.17E+00 | 3.49E+00 | 4.33E+00 | 5.99E-01 | 14 +/- 30% |
| trans-1,2-Dichloroethene | 13.73 | 13.63 | 13.83 | 4.19E+00 | 4.41E+00 | 3.53E+00 | 3.83E+00 | 3.39E+00 | 3.87E+00 | 3.83E-01 | 10 +/- 30% |
| 1,1-Dichloroethane | 15.00 | 14.89 | 15.11 | 3.07E+00 | 3.71E+00 | 2.97E+00 | 3.21E+00 | 2.78E+00 | 3.15E+00 | 3.11E-01 | 10 +/- 30% |
| cis-1,2-Dichloroethene | 16.80 | 16.67 | 16.93 | 2.75E+00 | 3.19E+00 | 2.73E+00 | 2.88E+00 | 2.55E+00 | 2.82E+00 | 2.14E-01 | 8 +/- 30% |
| Chloroform | 17.89 | 17.76 | 18.02 | 2.53E+00 | 2.93E+00 | 2.53E+00 | 2.78E+00 | 2.59E+00 | 2.67E+00 | 1.58E-01 | 6 +/- 30% |
| 1,1,1-Trichloroethane | 18.57 | 18.43 | 18.71 | 5.00E+00 | 5.07E+00 | 4.41E+00 | 4.69E+00 | 4.54E+00 | 4.74E+00 | 2.55E-01 | 5 +/- 30% |
| Carbon Tetrachloride | 19.24 | 19.10 | 19.38 | --- | --- | 8.65E-01 | 1.24E+00 | 1.62E+00 | 1.24E+00 | 3.09E-01 | 25 +/- 30% |
| 1,2-Dichloroethane | 20.01 | 19.86 | 20.16 | 4.05E+00 | 3.88E+00 | 3.27E+00 | 3.35E+00 | 2.36E+00 | 3.39E+00 | 5.92E-01 | 17 +/- 30% |
| Trichloroethene | 22.44 | 22.27 | 22.61 | 4.79E+00 | 5.12E+00 | 4.50E+00 | 4.70E+00 | 4.88E+00 | 4.80E+00 | 2.04E-01 | 4 +/- 30% |
| 1,2-Dichloropropane | 23.30 | 23.13 | 23.47 | 3.82E+00 | 4.23E+00 | 3.66E+00 | 3.62E+00 | 3.23E+00 | 3.71E+00 | 3.24E-01 | 9 +/- 30% |
| Bromodichloromethane | 24.41 | 24.23 | 24.59 | 2.71E+00 | 2.96E+00 | 2.72E+00 | 2.91E+00 | 2.77E+00 | 2.81E+00 | 1.00E-01 | 4 +/- 30% |
| cis-1,3-Dichloropropene | 26.42 | 26.22 | 26.62 | 2.79E+00 | 2.92E+00 | 2.68E+00 | 2.80E+00 | 2.59E+00 | 2.76E+00 | 1.10E-01 | 4 +/- 30% |
| trans-1,3-Dichloropropene | 28.89 | 28.67 | 29.11 | 1.51E+00 | 1.63E+00 | 1.53E+00 | 1.68E+00 | 1.70E+00 | 1.61E+00 | 7.75E-02 | 5 +/- 30% |
| 1-Chloro-2-bromopropane | 29.34 | 29.12 | 29.56 | 1.97E+00 | 2.34E+00 | 2.01E+00 | 2.34E+00 | 2.32E+00 | 2.20E+00 | 1.69E-01 | 8 +/- 30% |
| -surrogate | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2-Trichloroethane | 29.61 | 29.39 | 29.83 | 4.91E+00 | 5.32E+00 | 4.25E+00 | 4.55E+00 | 4.25E+00 | 4.66E+00 | 4.13E-01 | 9 +/- 30% |
| Tetrachloroethene | 30.26 | 30.03 | 30.49 | 5.68E+00 | 5.40E+00 | 4.47E+00 | 4.67E+00 | 4.34E+00 | 4.91E+00 | 5.30E-01 | 11 +/- 30% |
| Dibromochloromethane | 31.04 | 30.81 | 31.27 | 2.20E+00 | 2.32E+00 | 2.10E+00 | 2.32E+00 | 2.20E+00 | 2.23E+00 | 8.38E-02 | 4 +/- 30% |
| Chlorobenzene | 33.02 | 32.77 | 33.27 | 1.82E+00 | 1.91E+00 | 1.66E+00 | 1.68E+00 | 1.61E+00 | 1.74E+00 | 1.11E-01 | 6 +/- 30% |
| Bromoform | 35.32 | 35.06 | 35.58 | 1.32E+00 | 1.37E+00 | 1.49E+00 | 1.63E+00 | 1.65E+00 | 1.49E+00 | 1.12E-01 | 7 +/- 30% |
| 4-Bromofluorobenzene | 36.15 | 35.88 | 36.42 | --- | --- | --- | --- | --- | --- | --- | --- |
| -Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2,2-Tetrachloroethane | 36.47 | 36.20 | 36.74 | 5.09E+00 | 4.41E+00 | 3.65E+00 | 3.44E+00 | 3.23E+00 | 3.97E+00 | 6.88E-01 | 17 +/- 30% |
| 1,3-Dichlorobenzene | 38.53 | 38.24 | 38.82 | 2.20E+00 | 2.47E+00 | 2.13E+00 | 2.27E+00 | 2.17E+00 | 2.25E+00 | 1.19E-01 | 5 +/- 30% |
| 1,4-Dichlorobenzene | 38.96 | 38.67 | 39.25 | 3.52E+00 | 2.77E+00 | 2.81E+00 | 2.86E+00 | 2.62E+00 | 2.92E+00 | 3.12E-01 | 11 +/- 30% |
| 1,2-Dichlorobenzene | 39.18 | 38.89 | 39.47 | 2.89E+00 | 3.09E+00 | 2.74E+00 | 2.66E+00 | 2.48E+00 | 2.77E+00 | 2.07E-01 | 7 +/- 30% |

FASP Method 8010 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 28, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | AREAS | | | | | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | %RSD | QC LIMITS | |
|---------------------------|-------------|-----------------|-------|--------|--------|---------|---------|---------------------------------|-----------|----------|----------|----------|-------------|----------|----------|-----------|---------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | | |
| Dichlorodifluoromethane/ | 6.50 | 6.45 | 6.55 | 60558 | 66405 | 198729 | 382476 | 969480 | 9.86E-01 | 5.76E-01 | 6.15E-01 | 6.12E-01 | 6.99E-01 | 6.98E-01 | 1.50E-01 | 21 | +/- 50% |
| Chloromethane | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | +/- 50% |
| Vinyl chloride | 7.57 | 7.51 | 7.63 | 164013 | 315845 | 715273 | 1502956 | 3079098 | 2.67E+00 | 2.74E+00 | 2.21E+00 | 2.41E+00 | 2.22E+00 | 2.45E+00 | 2.21E-01 | 9 | +/- 50% |
| Bromomethane/Chloroethane | 8.83 | 8.76 | 8.90 | 178528 | 302483 | 644939 | 1357415 | 2698828 | 2.91E+00 | 2.62E+00 | 2.00E+00 | 2.17E+00 | 1.95E+00 | 2.33E+00 | 3.75E-01 | 16 | +/- 50% |
| Trichlorofluoromethane | 9.79 | 9.72 | 9.86 | 83581 | 210087 | 541171 | 1100900 | 2065457 | 1.36E+00 | 1.82E+00 | 1.67E+00 | 1.76E+00 | 1.49E+00 | 1.62E+00 | 1.72E-01 | 11 | +/- 50% |
| 1,1-Dichloroethene | 11.47 | 11.38 | 11.56 | 198828 | 450454 | 1030216 | 2146181 | 3875143 | 3.24E+00 | 3.91E+00 | 3.19E+00 | 3.43E+00 | 2.79E+00 | 3.31E+00 | 3.63E-01 | 11 | +/- 30% |
| Methylene Chloride | 12.79 | 12.69 | 12.89 | 300520 | 590241 | 1284044 | 2607525 | 4847769 | 4.89E+00 | 5.12E+00 | 3.97E+00 | 4.17E+00 | 3.49E+00 | 4.33E+00 | 5.99E-01 | 14 | +/- 30% |
| trans-1,2-Dichloroethene | 13.73 | 13.63 | 13.83 | 257396 | 507987 | 1141073 | 2395358 | 4707617 | 4.19E+00 | 4.41E+00 | 3.53E+00 | 3.83E+00 | 3.39E+00 | 3.87E+00 | 3.83E-01 | 10 | +/- 30% |
| 1,1-Dichloroethane | 15.00 | 14.89 | 15.11 | 188754 | 427260 | 960911 | 2005368 | 3862656 | 3.07E+00 | 3.71E+00 | 2.97E+00 | 3.21E+00 | 2.78E+00 | 3.15E+00 | 3.11E-01 | 10 | +/- 30% |
| cis-1,2-Dichloroethene | 16.80 | 16.67 | 16.93 | 168870 | 368300 | 880653 | 1799592 | 3543691 | 2.75E+00 | 3.19E+00 | 2.73E+00 | 2.88E+00 | 2.55E+00 | 2.82E+00 | 2.14E-01 | 8 | +/- 30% |
| Chloroform | 17.89 | 17.76 | 18.02 | 155181 | 337824 | 818576 | 1735504 | 3591367 | 2.53E+00 | 2.93E+00 | 2.53E+00 | 2.78E+00 | 2.59E+00 | 2.67E+00 | 1.58E-01 | 6 | +/- 30% |
| 1,1,1-Trichloroethane | 18.57 | 18.43 | 18.71 | 307244 | 584587 | 1426700 | 2928471 | 6304810 | 5.00E+00 | 5.07E+00 | 4.41E+00 | 4.69E+00 | 4.54E+00 | 4.74E+00 | 2.55E-01 | 5 | +/- 30% |
| Carbon Tetrachloride | 19.24 | 19.10 | 19.38 | 58140 | 77731 | 279423 | 777255 | 2249912 | --- | --- | 8.65E-01 | 1.24E+00 | 1.62E+00 | 1.24E+00 | 3.09E-01 | 25 | +/- 30% |
| 1,2-Dichloroethane | 20.01 | 19.86 | 20.16 | 248786 | 447819 | 1057723 | 2095870 | 3278418 | 4.05E+00 | 3.88E+00 | 3.27E+00 | 3.35E+00 | 2.36E+00 | 3.39E+00 | 5.92E-01 | 17 | +/- 30% |
| Trichloroethene | 22.44 | 22.27 | 22.61 | 293934 | 590492 | 1454693 | 2936307 | 6766937 | 4.79E+00 | 5.12E+00 | 4.50E+00 | 4.70E+00 | 4.88E+00 | 4.80E+00 | 2.04E-01 | 4 | +/- 30% |
| 1,2-Dichloropropane | 23.30 | 23.13 | 23.47 | 234659 | 487882 | 1181506 | 2263282 | 4483459 | 3.82E+00 | 4.23E+00 | 3.66E+00 | 3.62E+00 | 3.23E+00 | 3.71E+00 | 3.24E-01 | 9 | +/- 30% |
| Bromodichloromethane | 24.41 | 24.23 | 24.59 | 166681 | 340734 | 878954 | 1819762 | 3842358 | 2.71E+00 | 2.96E+00 | 2.72E+00 | 2.91E+00 | 2.77E+00 | 2.81E+00 | 1.00E-01 | 4 | +/- 30% |
| cis-1,3-Dichloropropene | 26.42 | 26.22 | 26.62 | 171363 | 336566 | 866986 | 1748404 | 3600185 | 2.791E+00 | 2.92E+00 | 2.68E+00 | 2.80E+00 | 2.59E+00 | 2.76E+00 | 1.10E-01 | 4 | +/- 30% |
| trans-1,3-Dichloropropene | 28.89 | 28.67 | 29.11 | 92817 | 188371 | 492923 | 1051569 | 2352599 | 1.51E+00 | 1.63E+00 | 1.53E+00 | 1.68E+00 | 1.70E+00 | 1.61E+00 | 7.75E-02 | 5 | +/- 30% |
| 1-Chloro-2-bromopropane | 29.34 | 29.12 | 29.56 | 121046 | 270349 | 648325 | 1461443 | 3213720 | 1.97E+00 | 2.34E+00 | 2.01E+00 | 2.34E+00 | 2.32E+00 | 2.20E+00 | 1.69E-01 | 8 | +/- 30% |
| -surrogate | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1,1,2-Trichloroethane | 29.61 | 29.39 | 29.83 | 301728 | 613369 | 1372665 | 2845126 | 5893713 | 4.91E+00 | 5.32E+00 | 4.25E+00 | 4.55E+00 | 4.25E+00 | 4.66E+00 | 4.13E-01 | 9 | +/- 30% |
| Tetrachloroethene | 30.26 | 30.03 | 30.49 | 348464 | 622724 | 1443133 | 2919245 | 6025114 | 5.68E+00 | 5.40E+00 | 4.47E+00 | 4.67E+00 | 4.34E+00 | 4.91E+00 | 5.30E-01 | 11 | +/- 30% |
| Dibromochloromethane | 31.04 | 30.81 | 31.27 | 134896 | 267872 | 679410 | 1450219 | 3055090 | 2.20E+00 | 2.32E+00 | 2.10E+00 | 2.32E+00 | 2.20E+00 | 2.23E+00 | 8.38E-02 | 4 | +/- 30% |
| Chlorobenzene | 33.02 | 32.77 | 33.27 | 111468 | 220365 | 536736 | 1048339 | 2235790 | 1.82E+00 | 1.91E+00 | 1.66E+00 | 1.68E+00 | 1.61E+00 | 1.74E+00 | 1.11E-01 | 6 | +/- 30% |
| Bromoform | 35.32 | 35.06 | 35.58 | 81067 | 158425 | 480485 | 1016821 | 2289636 | 1.32E+00 | 1.37E+00 | 1.49E+00 | 1.63E+00 | 1.65E+00 | 1.49E+00 | 1.12E-01 | 7 | +/- 30% |
| 4-Bromo fluoro benzene | 36.15 | 35.88 | 36.42 | 921034 | 864781 | 969471 | 937245 | 1040666 | --- | --- | --- | --- | --- | --- | --- | --- | |
| -Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1,1,2,2-Tetrachloroethane | 36.47 | 36.20 | 36.74 | 312404 | 508440 | 1180571 | 2150262 | 4486837 | 5.09E+00 | 4.41E+00 | 3.65E+00 | 3.44E+00 | 3.23E+00 | 3.97E+00 | 6.88E-01 | 17 | +/- 30% |
| 1,3-Dichlorobenzene | 38.53 | 38.24 | 38.82 | 135286 | 284780 | 689669 | 1415851 | 3012989 | 2.20E+00 | 2.47E+00 | 2.13E+00 | 2.27E+00 | 2.17E+00 | 2.25E+00 | 1.19E-01 | 5 | +/- 30% |
| 1,4-Dichlorobenzene | 38.96 | 38.67 | 39.25 | 216244 | 319959 | 906962 | 1790032 | 3638972 | 3.52E+00 | 2.77E+00 | 2.81E+00 | 2.86E+00 | 2.62E+00 | 2.92E+00 | 3.12E-01 | 11 | +/- 30% |
| 1,2-Dichlorobenzene | 39.18 | 38.89 | 39.47 | 177495 | 355823 | 885068 | 1660008 | 3438876 | 2.89E+00 | 3.09E+00 | 2.74E+00 | 2.66E+00 | 2.48E+00 | 2.77E+00 | 2.07E-01 | 7 | +/- 30% |

EPA METHOD 8020 INITIAL CALIBRATION DATA

FASP Method 8020 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 1, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | PEAK AREAS | | | | | |
|--------------------------|----------------|-----------------|------------|--------|--------|--------|---------|---------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | |
| Benzene | 18.96 | 18.82 | 19.10 | 90500 | 140211 | 284968 | 523458 | 1091751 |
| Fluorobenzene--surrogate | 19.97 | 19.82 | 20.12 | 25953 | 55756 | 142037 | 302897 | 658073 |
| Toluene | 27.09 | 26.89 | 27.29 | 75756 | 119603 | 256430 | 505901 | 1016342 |
| Chlorobenzene | 32.4 | 32.16 | 32.64 | 38208 | 83020 | 228492 | 503763 | 1027100 |
| Ethylbenzene | 32.75 | 32.50 | 33.00 | 35246 | 73213 | 198511 | 436063 | 886271 |
| p,m-Xylene | 33.1 | 32.85 | 33.35 | 89024 | 184891 | 486628 | 1043227 | 2083682 |
| o-Xylene | 34.24 | 33.98 | 34.50 | 33123 | 69033 | 187310 | 412711 | 838552 |
| 4-Bromofluorobenzene | 35.64 | 35.37 | 35.91 | 729687 | 721965 | 714358 | 736101 | 710691 |
| ---Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- |

| COMPOUND | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | % RSD | QC LIMITS |
|--------------------------|---------------------------------|----------|----------|----------|----------|----------------|----------|-------|--------------|
| | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | |
| Benzene | 1.86E+00 | 1.46E+00 | 1.20E+00 | 1.07E+00 | 1.15E+00 | 1.35E+00 | 2.88E-01 | 21 | +/- 30% |
| Fluorobenzene--surrogate | 5.34E-01 | 5.79E-01 | 5.96E-01 | 6.17E-01 | 6.94E-01 | 6.04E-01 | 5.29E-02 | 9 | +/- 30% |
| Toluene | 1.56E+00 | 1.24E+00 | 1.08E+00 | 1.03E+00 | 1.07E+00 | 1.20E+00 | 1.95E-01 | 16 | +/- 30% |
| Chlorobenzene | 7.85E-01 | 8.62E-01 | 9.60E-01 | 1.03E+00 | 1.08E+00 | 9.44E-01 | 1.08E-01 | 11 | +/- 30% |
| Ethylbenzene | 7.25E-01 | 7.61E-01 | 8.34E-01 | 8.89E-01 | 9.35E-01 | 8.29E-01 | 7.81E-02 | 9 | +/- 30% |
| p,m-Xylene | 1.83E+00 | 1.92E+00 | 2.04E+00 | 2.13E+00 | 2.20E+00 | 2.02E+00 | 1.34E-01 | 7 | +/- 30% |
| o-Xylene | 6.81E-01 | 7.17E-01 | 7.87E-01 | 8.41E-01 | 8.85E-01 | 7.82E-01 | 7.55E-02 | 10 | +/- 30% |

FASP Method 8020 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 6, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | PEAK AREAS | | | | | |
|--------------------------|----------------|-----------------|-------------------|--------|--------|--------|--------|---------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | |
| Benzene | 18.29 | 18.15 | 18.43 | 69950 | 117876 | 237485 | 435527 | 929071 |
| Fluorobenzene--surrogate | 19.29 | 19.15 | 19.43 | 20312 | 45697 | 113835 | 240509 | 524480 |
| Toluene | 26.16 | 25.96 | 26.36 | 59514 | 103768 | 214336 | 405162 | 878547 |
| Chlorobenzene | 31.8 | 31.56 | 32.04 | 29519 | 73742 | 191492 | 396769 | 888374 |
| Ethylbenzene | 32.16 | 31.92 | 32.40 | 27344 | 65313 | 166827 | 343684 | 768223 |
| p,m-Xylene | 32.52 | 32.28 | 32.76 | 69726 | 167022 | 417317 | 842283 | 1832769 |
| o-Xylene | 33.67 | 33.42 | 33.92 | 27156 | 63503 | 161394 | 331896 | 739940 |
| 4-Bromofluorobenzene | 35.09 | 34.83 | 35.35 | 637353 | 647966 | 642589 | 625347 | 654690 |
| ---Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- |

| COMPOUND | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | % RSD | QC LIMITS |
|--------------------------|--|----------|----------|----------|----------|----------------|----------|-------|--------------|
| | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | |
| Benzene | 1.65E+00 | 1.36E+00 | 1.11E+00 | 1.04E+00 | 1.06E+00 | 1.25E+00 | 2.31E-01 | 19 | +/- 30% |
| Fluorobenzene--surrogate | 4.78E-01 | 5.29E-01 | 5.31E-01 | 5.77E-01 | 6.01E-01 | 5.43E-01 | 4.25E-02 | 8 | +/- 30% |
| Toluene | 1.40E+00 | 1.20E+00 | 1.00E+00 | 9.72E-01 | 1.01E+00 | 1.12E+00 | 1.64E-01 | 15 | +/- 30% |
| Chlorobenzene | 6.95E-01 | 8.54E-01 | 8.94E-01 | 9.52E-01 | 1.02E+00 | 8.82E-01 | 1.09E-01 | 12 | +/- 30% |
| Ethylbenzene | 6.44E-01 | 7.56E-01 | 7.79E-01 | 8.24E-01 | 8.80E-01 | 7.77E-01 | 7.89E-02 | 10 | +/- 30% |
| p,m-Xylene | 1.64E+00 | 1.93E+00 | 1.95E+00 | 2.02E+00 | 2.10E+00 | 1.93E+00 | 1.55E-01 | 8 | +/- 30% |
| o-Xylene | 6.39E-01 | 7.35E-01 | 7.53E-01 | 7.96E-01 | 8.48E-01 | 7.54E-01 | 6.94E-02 | 9 | +/- 30% |

FASP Method 8020 Initial Calibration Summary

Site: Phoenix, Arizona (SIBW)

Calibration Date: June 28, 1994

| COMPOUND | Midpoint RT | 1.5 % RT Window | PEAK AREAS | | | | | |
|--------------------------|----------------|-----------------|------------|--------|--------|--------|--------|---------|
| | | | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | |
| Benzene | 19.92 | 19.77 | 20.07 | 52708 | 82550 | 169556 | 343956 | 702872 |
| Fluorobenzene--surrogate | 20.92 | 20.76 | 21.08 | 18381 | 39984 | 98724 | 223176 | 486573 |
| Toluene | 28.14 | 27.93 | 28.35 | 44137 | 71647 | 150488 | 311892 | 614914 |
| Chlorobenzene | 32.98 | 32.73 | 33.23 | 23550 | 53647 | 142527 | 322144 | 686262 |
| Ethylbenzene | 33.32 | 33.07 | 33.57 | 20782 | 45397 | 117644 | 265852 | 567102 |
| p,m-Xylene | 33.65 | 33.40 | 33.90 | 53794 | 118404 | 306187 | 667367 | 1384523 |
| o-Xylene | 34.77 | 34.51 | 35.03 | 20051 | 44200 | 114521 | 257505 | 554534 |
| 4-Bromofluorobenzene | 36.12 | 35.85 | 36.39 | 473385 | 435426 | 449649 | 455646 | 469366 |
| ---Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- |

| COMPOUND | RELATIVE RESPONSE FACTORS (RRF) | | | | | Average RRF | SD | % RSD | QC LIMITS |
|--------------------------|---------------------------------|----------|----------|----------|----------|----------------|----------|-------|--------------|
| | 10 ng | 20 ng | 50 ng | 100 ng | 200 ng | | | | |
| Benzene | 1.67E+00 | 1.42E+00 | 1.13E+00 | 1.13E+00 | 1.12E+00 | 1.30E+00 | 2.19E-01 | 17 | +/- 30% |
| Fluorobenzene--surrogate | 5.82E-01 | 6.89E-01 | 6.59E-01 | 7.35E-01 | 7.77E-01 | 6.88E-01 | 6.66E-02 | 10 | +/- 30% |
| Toluene | 1.40E+00 | 1.23E+00 | 1.00E+00 | 1.03E+00 | 9.83E-01 | 1.13E+00 | 1.62E-01 | 14 | +/- 30% |
| Chlorobenzene | 7.46E-01 | 9.24E-01 | 9.51E-01 | 1.06E+00 | 1.10E+00 | 9.56E-01 | 1.23E-01 | 13 | +/- 30% |
| Ethylbenzene | 6.59E-01 | 7.82E-01 | 7.85E-01 | 8.75E-01 | 9.06E-01 | 8.01E-01 | 8.66E-02 | 11 | +/- 30% |
| p,m-Xylene | 1.70E+00 | 2.04E+00 | 2.04E+00 | 2.20E+00 | 2.21E+00 | 2.04E+00 | 1.83E-01 | 9 | +/- 30% |
| o-Xylene | 6.35E-01 | 7.61E-01 | 7.64E-01 | 8.48E-01 | 8.86E-01 | 7.79E-01 | 8.64E-02 | 11 | +/- 30% |

EPA METHOD 8010 CONTINUING CALIBRATION DATA

FASP Method 8010 Continuing Calibration Summary

Site: Phoenix, Arizona (SIBW)

Continuing Calibration Date:

June 02, 1994

Initial Calibration Date:

June 01, 1994

Standard Concentration:

100 ng

| COMPOUND | Retention Time | 1.5 % RT Window | | Area | Rel. Response Factor - CCAL | Rel Response Factor - ICAL | % D | QC Limits |
|--|----------------|-----------------|-------|---------|-----------------------------|----------------------------|-----|-----------|
| Dichlorodifluoromethane/ Chloromethane | 6.35 | 6.30 | 6.40 | 236565 | 5.44E+01 | 8.46E-01 | -36 | +/- 50% |
| Vinyl chloride | 6.73 | 6.68 | 6.78 | 660270 | 1.52E+00 | 1.75E+00 | -13 | +/- 50% |
| Bromomethane/Chloroethane | 7.88 | 7.82 | 7.94 | 1059972 | 2.44E+00 | 2.77E+00 | -12 | +/- 50% |
| Trichlorodifluoromethane | 8.73 | 8.66 | 8.80 | 633391 | 1.46E+00 | 1.68E+00 | -13 | +/- 50% |
| 1,1-Dichloroethene | 10.27 | 10.19 | 10.35 | 1035732 | 2.38E+00 | 2.31E+00 | 3 | +/- 25% |
| Methylene Chloride | 11.57 | 11.48 | 11.66 | 1411507 | 3.24E+00 | 3.33E+00 | -3 | +/- 25% |
| trans-1,2-Dichloroethene | 12.46 | 12.37 | 12.55 | 1224243 | 2.81E+00 | 3.11E+00 | -10 | +/- 25% |
| cis-1,1-Dichloroethane | 13.68 | 13.58 | 13.78 | 1011528 | 2.33E+00 | 2.70E+00 | -14 | +/- 25% |
| cis-1,2-Dichloroethene | 15.33 | 15.22 | 15.44 | 989274 | 2.27E+00 | 2.69E+00 | -16 | +/- 25% |
| Chloroform | 16.32 | 16.20 | 16.44 | 897775 | 2.06E+00 | 2.25E+00 | -8 | +/- 25% |
| 1,1,1-Trichloroethane | 16.93 | 16.80 | 17.06 | 1458933 | 3.35E+00 | 3.45E+00 | -3 | +/- 25% |
| Carbon Tetrachloride | 17.55 | 17.42 | 17.68 | 440531 | 1.01E+00 | 1.07E+00 | -6 | +/- 25% |
| 1,2-Dichloroethane | 18.25 | 18.11 | 18.39 | 1317430 | 3.03E+00 | 3.17E+00 | -5 | +/- 25% |
| Trichloroethene | 20.71 | 20.55 | 20.87 | 1586559 | 3.65E+00 | 3.78E+00 | -4 | +/- 25% |
| 1,2-Dichloropropane | 21.53 | 21.37 | 21.69 | 1158421 | 2.66E+00 | 2.88E+00 | -7 | +/- 25% |
| Bromodichloromethane | 22.65 | 22.48 | 22.82 | 924631 | 2.13E+00 | 2.16E+00 | -2 | +/- 25% |
| cis-1,3-Dichloropropene | 24.50 | 24.32 | 24.68 | 726336 | 1.67E+00 | 2.02E+00 | -17 | +/- 25% |
| trans-1,3-Dichloropropene | 27.12 | 26.92 | 27.32 | 470281 | 1.08E+00 | 1.34E+00 | -19 | +/- 25% |
| 1-Chloro-2-bromopropane | 27.64 | 27.43 | 27.85 | 740382 | 1.70E+00 | 1.82E+00 | -7 | +/- 25% |
| -surrogate | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2-Trichloroethane | 27.97 | 27.76 | 28.18 | 1514844 | 3.48E+00 | 3.79E+00 | -8 | +/- 25% |
| Tetrachloroethene | 28.71 | 28.49 | 28.93 | 1670370 | 3.84E+00 | 4.04E+00 | -5 | +/- 25% |
| Dibromochloromethane | 29.61 | 29.39 | 29.83 | 752030 | 1.73E+00 | 1.77E+00 | -2 | +/- 25% |
| Chlorobenzene | 31.75 | 31.51 | 31.99 | 685246 | 1.58E+00 | 1.52E+00 | 4 | +/- 25% |
| Bromoform | 34.15 | 33.89 | 34.41 | 588570 | 1.35E+00 | 1.36E+00 | -1 | +/- 25% |
| 4-Bromofluorobenzene | 35.04 | 34.78 | 35.30 | 652576 | --- | --- | --- | --- |
| -Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2,2-Tetrachloroethane | 35.39 | 35.12 | 35.66 | 1326047 | 3.05E+00 | 3.40E+00 | -10 | +/- 25% |
| 1,3-Dichlorobenzene | 37.73 | 37.45 | 38.01 | 954984 | 2.20E+00 | 2.29E+00 | -4 | +/- 25% |
| 1,4-Dichlorobenzene | 37.94 | 37.66 | 38.22 | 1164357 | 2.68E+00 | 2.83E+00 | -5 | +/- 25% |
| 1,2-Dichlorobenzene | 38.89 | 38.60 | 39.18 | 1137433 | 2.61E+00 | 2.58E+00 | 1 | +/- 25% |

NR: Analyte not recovered

NA: Not applicable

** The area of the surrogate is doubled after discovering that it has been spiked half of the standard solution.

FASP Method 8010 Continuing Calibration Summary

Site: Phoenix, Arizona (SIBW)

Continuing Calibration Date:

June 03, 1994

Initial Calibration Date:

June 01, 1994

Standard Concentration:

100 ng

| COMPOUND | Retention Time | 1.5 % RT Window | | Area | Rel. Response Factor - CCAL | Rel Response Factor - ICAL | % D | QC Limits |
|---------------------------|----------------|-----------------|-------|---------|-----------------------------|----------------------------|-----|-----------|
| Dichlorodifluoromethane/ | 5.78 | 5.74 | 5.82 | 214683 | 5.20E-01 | 8.46E-01 | -38 | +/- 50% |
| Chloromethane | --- | --- | --- | --- | --- | --- | --- | +/- 50% |
| Vinyl chloride | 6.73 | 6.68 | 6.78 | 648712 | 1.57E+00 | 1.75E+00 | -10 | +/- 50% |
| Bromomethane/Chloroethane | 7.87 | 7.81 | 7.93 | 1024786 | 2.48E+00 | 2.77E+00 | -10 | +/- 50% |
| Trichlorofluoromethane | 8.75 | 8.68 | 8.82 | 611203 | 1.48E+00 | 1.68E+00 | -12 | +/- 50% |
| 1,1-Dichloroethene | 10.24 | 10.16 | 10.32 | 998842 | 2.42E+00 | 2.31E+00 | 5 | +/- 25% |
| Methylene Chloride | 11.59 | 11.50 | 11.68 | 1402518 | 3.40E+00 | 3.33E+00 | 2 | +/- 25% |
| trans-1,2-Dichloroethene | 12.46 | 12.37 | 12.55 | 1210583 | 2.93E+00 | 3.11E+00 | -6 | +/- 25% |
| 1,1-Dichloroethane | 13.66 | 13.56 | 13.76 | 995033 | 2.41E+00 | 2.70E+00 | -11 | +/- 25% |
| cis-1,2-Dichloroethene | 15.33 | 15.22 | 15.44 | 992917 | 2.41E+00 | 2.69E+00 | -11 | +/- 25% |
| Chloroform | 16.28 | 16.16 | 16.40 | 954395 | 2.31E+00 | 2.25E+00 | 3 | +/- 25% |
| 1,1,1-Trichloroethane | 16.92 | 16.79 | 17.05 | 1560834 | 3.78E+00 | 3.45E+00 | 10 | +/- 25% |
| Carbon Tetrachloride | 17.54 | 17.41 | 17.67 | 576890 | 1.40E+00 | 1.07E+00 | 30 | +/- 25% |
| 1,2-Dichloroethane | 18.22 | 18.08 | 18.36 | 1303148 | 3.16E+00 | 3.17E+00 | -0 | +/- 25% |
| Trichloroethene | 20.69 | 20.53 | 20.85 | 1610058 | 3.90E+00 | 3.78E+00 | 3 | +/- 25% |
| 1,2-Dichloropropane | 21.53 | 21.37 | 21.69 | 1184573 | 2.87E+00 | 2.88E+00 | -0 | +/- 25% |
| Bromodichloromethane | 22.63 | 22.46 | 22.80 | 963533 | 2.33E+00 | 2.16E+00 | 8 | +/- 25% |
| cis-1,3-Dichloropropene | 24.50 | 24.32 | 24.68 | 782718 | 1.90E+00 | 2.02E+00 | -6 | +/- 25% |
| trans-1,3-Dichloropropene | 27.12 | 26.92 | 27.32 | 488569 | 1.18E+00 | 1.34E+00 | -12 | +/- 25% |
| 1-Chloro-2-bromopropane | 27.62 | 27.41 | 27.83 | 726997 | 1.76E+00 | 1.82E+00 | -3 | +/- 25% |
| -surrogate | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2-Trichloroethane | 27.97 | 27.76 | 28.18 | 1512188 | 3.66E+00 | 3.79E+00 | -3 | +/- 25% |
| Tetrachloroethene | 28.72 | 28.50 | 28.94 | 1670462 | 4.05E+00 | 4.04E+00 | 0 | +/- 25% |
| Dibromochloromethane | 29.63 | 29.41 | 29.85 | 785337 | 1.90E+00 | 1.77E+00 | 8 | +/- 25% |
| Chlorobenzene | 31.76 | 31.52 | 32.00 | 650082 | 1.58E+00 | 1.52E+00 | 4 | +/- 25% |
| Bromoform | 34.17 | 33.91 | 34.43 | 590733 | 1.43E+00 | 1.36E+00 | 5 | +/- 25% |
| 4-Bromofluorobenzene | 35.05 | 34.79 | 35.31 | 619082 | --- | --- | --- | --- |
| -Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2,2-Tetrachloroethane | 35.39 | 35.12 | 35.66 | 1204208 | 2.92E+00 | 3.40E+00 | -14 | +/- 25% |
| 1,3-Dichlorobenzene | 37.74 | 37.46 | 38.02 | 922161 | 2.23E+00 | 2.29E+00 | -2 | +/- 25% |
| 1,4-Dichlorobenzene | 37.96 | 37.68 | 38.24 | 1141817 | 2.77E+00 | 2.83E+00 | -2 | +/- 25% |
| 1,2-Dichlorobenzene | 38.89 | 38.60 | 39.18 | 1025895 | 2.49E+00 | 2.58E+00 | -4 | +/- 25% |

NR: Analyte not recovered

NA: Not applicable

FASP Method 8010 Continuing Calibration Summary

Site: Phoenix, Arizona (SIBW)

Continuing Calibration Date:

July 08, 1994

Initial Calibration Date:

June 28, 1994

Standard Concentration:

100 ng

| COMPOUND | Retention Time | 1.5 % RT Window | | Area | Rel. Response Factor - CCAL | Rel Response Factor - ICAL | % D | QC Limits |
|---------------------------|----------------|-----------------|-------|---------|-----------------------------|----------------------------|-----|-----------|
| Dichlorodifluoromethane/ | 6.51 | 6.46 | 6.56 | 288295 | 5.09E-01 | 1.23E+00 | -59 | +/- 50% |
| Chloromethane | --- | --- | --- | --- | --- | --- | --- | +/- 50% |
| Vinyl chloride | 7.55 | 7.49 | 7.61 | 1159994 | 2.05E+00 | 3.01E+00 | -32 | +/- 50% |
| Bromomethane/Chloroethane | 8.82 | 8.75 | 8.89 | 1326689 | 2.34E+00 | 3.92E+00 | -40 | +/- 50% |
| Trichlorofluoromethane | 9.75 | 9.68 | 9.82 | 955867 | 1.69E+00 | 2.32E+00 | -27 | +/- 50% |
| 1,1-Dichloroethene | 11.51 | 11.42 | 11.60 | 1761900 | 3.11E+00 | 3.93E+00 | -21 | +/- 25% |
| Methylene Chloride | 12.79 | 12.69 | 12.89 | 2279108 | 4.03E+00 | 5.47E+00 | -26 | +/- 25% |
| trans-1,2-Dichloroethene | 13.67 | 13.57 | 13.77 | 2047346 | 3.62E+00 | 4.51E+00 | -20 | +/- 25% |
| 1,1-Dichloroethane | 14.91 | 14.80 | 15.02 | 1584223 | 2.80E+00 | 3.62E+00 | -23 | +/- 25% |
| cis-1,2-Dichloroethene | 16.70 | 16.57 | 16.83 | 1509000 | 2.67E+00 | 3.29E+00 | -19 | +/- 25% |
| Chloroform | 17.77 | 17.64 | 17.90 | 1473119 | 2.60E+00 | 3.09E+00 | -16 | +/- 25% |
| 1,1,1-Trichloroethane | 18.49 | 18.35 | 18.63 | 2535934 | 4.48E+00 | 5.21E+00 | -14 | +/- 25% |
| Carbon Tetrachloride | 19.16 | 19.01 | 19.30 | 817938 | 1.45E+00 | 1.70E+00 | -15 | +/- 25% |
| 1,2-Dichloroethane | 19.87 | 19.72 | 20.02 | 1848655 | 3.27E+00 | 4.12E+00 | -21 | +/- 25% |
| Trichloroethene | 22.35 | 22.18 | 22.51 | 2684743 | 4.74E+00 | 5.38E+00 | -12 | +/- 25% |
| 1,2-Dichloropropane | 23.20 | 23.03 | 23.37 | 2001268 | 3.54E+00 | 4.05E+00 | -13 | +/- 25% |
| Bromodichloromethane | 24.30 | 24.12 | 24.48 | 1639488 | 2.90E+00 | 3.08E+00 | -6 | +/- 25% |
| cis-1,3-Dichloropropene | 26.30 | 26.10 | 26.50 | 1507181 | 2.66E+00 | 2.95E+00 | -10 | +/- 25% |
| trans-1,3-Dichloropropene | 28.79 | 28.57 | 29.01 | 941948 | 1.66E+00 | 1.71E+00 | -3 | +/- 25% |
| 1-Chloro-2-bromopropane | 29.26 | 29.04 | 29.48 | 1328903 | 2.35E+00 | 2.51E+00 | -7 | +/- 25% |
| -surrogate | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2-Trichloroethane | 29.51 | 29.29 | 29.73 | 2605203 | 4.60E+00 | 5.07E+00 | -9 | +/- 25% |
| Tetrachloroethene | 30.18 | 29.95 | 30.41 | 2715386 | 4.80E+00 | 5.21E+00 | -8 | +/- 25% |
| Dibromochloromethane | 30.96 | 30.73 | 31.19 | 1338167 | 2.36E+00 | 2.29E+00 | 3 | +/- 25% |
| Chlorobenzene | 32.93 | 32.68 | 33.18 | 976566 | 1.73E+00 | 1.85E+00 | -7 | +/- 25% |
| Bromoform | 35.24 | 34.98 | 35.50 | 935256 | 1.65E+00 | 1.64E+00 | 1 | +/- 25% |
| 4-Bromofluorobenzene | 36.09 | 35.82 | 36.36 | 849067 | 1.50E+00 | --- | --- | --- |
| -Internal Standard | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,2,2-Tetrachloroethane | 36.39 | 36.12 | 36.66 | 1852195 | 3.27E+00 | 3.76E+00 | -13 | +/- 25% |
| 1,3-Dichlorobenzene | 38.86 | 38.57 | 39.15 | 1305988 | 2.31E+00 | 2.38E+00 | -3 | +/- 25% |
| 1,4-Dichlorobenzene | 39.10 | 38.80 | 39.39 | 1629532 | 2.88E+00 | 3.16E+00 | -9 | +/- 25% |
| 1,2-Dichlorobenzene | 40.11 | 39.81 | 40.41 | 1499008 | 2.65E+00 | 2.88E+00 | -8 | +/- 25% |

NR: Analyte not recovered

EPA METHOD 8020 CONTINUING CALIBRATION DATA

FASP Method 8020 Continuing Calibration Summary**Site: Phoenix, Arizona (SIBW)****Continuing Calibration Date:**

June 02, 1994

Initial Calibration Date:

June 01, 1994

Standard Concentration:

100 ng

| COMPOUND | Retention Time | 1.5 % RT Window | | Area | Rel. Response Factor - CCAL | Rel. Response Factor - ICAL | % D | QC Limits |
|--------------------------|----------------|-----------------|-------|---------|-----------------------------|-----------------------------|-----|-----------|
| Benzene | 18.20 | 18.06 | 18.34 | 529618 | 1.16E+00 | 1.35E+00 | 14 | +/- 25% |
| Fluorobenzene--surrogate | 19.22 | 19.08 | 19.36 | 259172 | 5.66E-01 | 6.04E-01 | 6 | +/- 25% |
| Toluene | 26.07 | 25.87 | 26.27 | 492991 | 1.08E+00 | 1.20E+00 | 10 | +/- 25% |
| Chlorobenzene | 31.73 | 31.49 | 31.97 | 478450 | 1.04E+00 | 9.44E-01 | -11 | +/- 25% |
| Ethylbenzene | 32.08 | 31.84 | 32.32 | 436038 | 9.52E-01 | 8.29E-01 | -15 | +/- 25% |
| p,m-Xylene | 32.45 | 32.21 | 32.69 | 1036713 | 2.26E+00 | 2.02E+00 | -12 | +/- 25% |
| o-Xylene | 33.60 | 33.35 | 33.85 | 407277 | 8.89E-01 | 7.82E-01 | -14 | +/- 25% |
| 4-Bromofluorobenzene | 35.02 | 34.76 | 35.28 | 687011 | | | | |
| -Internal Standard | | | | | | | | |

** The area of the surrogate is doubled after discovering that it has been spiked half of the standard solution.

FASP Method 8020 Continuing Calibration Summary

Site: Phoenix, Arizona (SIBW)

Continuing Calibration Date:

June 03, 1994

Initial Calibration Date:

June 01, 1994

Standard Concentration:

100 ng

| COMPOUND | Retention Time | 1.5 % RT Window | | Area | Rel. Response Factor - CCAL | Rel. Response Factor - ICAL | % D | QC Limits |
|--|----------------|-----------------|-------|---------|-----------------------------|-----------------------------|-----|-----------|
| Benzene | 18.19 | 18.05 | 18.33 | 557905 | 1.26E+00 | 1.35E+00 | 6 | +/- 25% |
| Fluorobenzene--surrogate | 19.21 | 19.07 | 19.35 | 286233 | 6.47E-01 | 6.04E-01 | -7 | +/- 25% |
| Toluene | 26.07 | 25.87 | 26.27 | 482934 | 1.09E+00 | 1.20E+00 | 9 | +/- 25% |
| Chlorobenzene | 31.73 | 31.49 | 31.97 | 467704 | 1.06E+00 | 9.44E-01 | -12 | +/- 25% |
| Ethylbenzene | 32.10 | 31.86 | 32.34 | 416468 | 9.42E-01 | 8.29E-01 | -14 | +/- 25% |
| p,m-Xylene | 32.47 | 32.23 | 32.71 | 1002843 | 2.27E+00 | 2.02E+00 | -12 | +/- 25% |
| o-Xylene | 33.62 | 33.37 | 33.87 | 395568 | 8.95E-01 | 7.82E-01 | -14 | +/- 25% |
| 4-Bromofluorobenzene -Internal Standard | 35.02 | 34.76 | 35.28 | 663090 | | | | |

FASP Method 8020 Continuing Calibration Summary

Site: Phoenix, Arizona (SIBW)

| | |
|-------------------------------------|---------------|
| Continuing Calibration Date: | July 08, 1994 |
| Initial Calibration Date: | June 28, 1994 |

Standard Concentration: 100 ng

EPA METHOD 8010/8020 BLANK SUMMARY

FASP METHOD 8010/8020 METHOD BLANK SUMMARY**SITE: (SIBW) CIRCUIT EXPRESS**

| DATE | CONTAMINANTS (ug/L) | FMDL (ug/L) | SURROGATE | | % RECOVERY | QC Limits |
|----------|---------------------|----------------|-------------------------|---------------|------------|-----------|
| | | | 1-Chloro-2-bromopropane | Fluorobenzene | | |
| 06/02/94 | | 1.0 | 84 | 91 | 65-130% | |
| | | 1.0 | 100 | 102 | 65-130% | |
| 06/03/94 | | 1.0 | 99 | 91 | 65-130% | |
| | | 1.0 | 94 | 91 | 65-130% | |
| 06/06/94 | | 1.0 | 104 | 95 | 65-130% | |
| | | 1.0 | 102 | 97 | 65-130% | |
| 07/08/94 | | 1.0 | 94 | 99 | 65-130% | |
| | | 1.0 | 88 | 100 | 65-130% | |
| | | 1.0 | 101 | 93 | 65-130% | |
| | | 1.0 | 102 | 88 | 65-130% | |

*OUT OF QC LIMITS

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/02/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 84 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 91 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/02/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 100 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 102 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 99 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 91 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 94 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 91 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 3

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 104 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 95 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/06/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 102 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 97 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/06/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 94 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 99 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 3

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/06/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 88 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 100 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/08/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 101 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 93 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

Method Blank 2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/08/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 102 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 88 |

EPA METHOD 8010/8020 SURROGATE RECOVERY CONTROL CHART

FASP METHOD 8010/8020 SURROGATE RECOVERY SUMMARY

SITE: (SIBW) Circuit Express

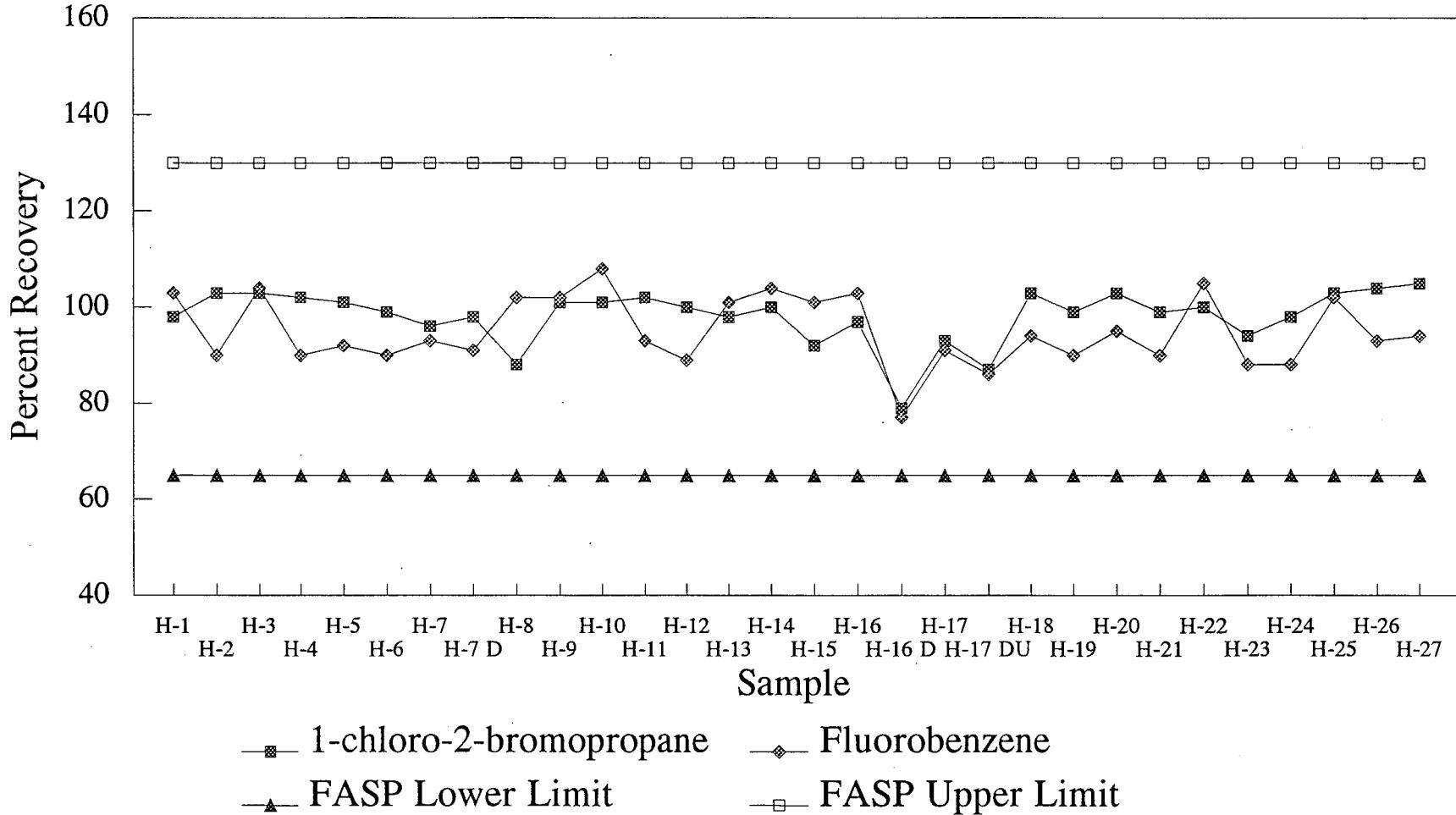
| Sample | Date Analyzed | % RECOVERY | | QC LIMITS |
|----------|---------------|-------------------------|---------------|-----------|
| | | 1-chloro-2-bromopropane | Fluorobenzene | |
| H-1 | 06/02/94 | 98 | 103 | 65-130% |
| H-2 | 06/03/94 | 103 | 90 | 65-130% |
| H-3 | 06/02/94 | 103 | 104 | 65-130% |
| H-4 | 06/03/94 | 102 | 90 | 65-130% |
| H-5 | 06/03/94 | 101 | 92 | 65-130% |
| H-6 | 06/03/94 | 99 | 90 | 65-130% |
| H-7 | 06/03/94 | 96 | 93 | 65-130% |
| H-7 D | 06/03/94 | 98 | 91 | 65-130% |
| H-8 | 06/02/94 | 88 | 102 | 65-130% |
| H-9 | 06/02/94 | 101 | 102 | 65-130% |
| H-10 | 06/02/94 | 101 | 108 | 65-130% |
| H-11 | 07/08/94 | 102 | 93 | 65-130% |
| H-12 | 06/03/94 | 100 | 89 | 65-130% |
| H-13 | 06/06/94 | 98 | 101 | 65-130% |
| H-14 | 06/06/94 | 100 | 104 | 65-130% |
| H-15 | 06/06/94 | 92 | 101 | 65-130% |
| H-16 | 06/06/94 | 97 | 103 | 65-130% |
| H-16 D | 06/06/94 | 79 | 77 | 65-130% |
| H-17 | 06/03/94 | 93 | 91 | 65-130% |
| H-17 DUP | 06/03/94 | 87 | 86 | 65-130% |
| H-18 | 07/08/94 | 103 | 94 | 65-130% |
| H-19 | 07/08/94 | 99 | 90 | 65-130% |
| H-20 | 07/08/94 | 103 | 95 | 65-130% |
| H-21 | 07/08/94 | 99 | 90 | 65-130% |
| H-22 | 06/02/94 | 100 | 105 | 65-130% |
| H-23 | 06/03/94 | 94 | 88 | 65-130% |
| H-24 | 06/03/94 | 98 | 88 | 65-130% |
| H-25 | 06/06/94 | 103 | 102 | 65-130% |
| H-26 | 07/08/94 | 104 | 93 | 65-130% |
| H-27 | 07/08/94 | 105 | 94 | 65-130% |

*OUT OF QC LIMITS:

| | |
|--------------------------|--------------------------|
| 1-chloro-2-bp 0 of 30 | Fluorobenzene 0 of 30 |
|--------------------------|--------------------------|

FASP Method 8010/8020 Surrogate Recoveries

(SIBW) Circuit Express



EPA METHOD 8010/8020 LABORATORY CONTROL SAMPLE RECOVERY

FASP METHOD 8010/8020 LCS RECOVERY SUMMARY

SITE: (SIBW) CIRCUIT EXPRESS

| DATE | Vinyl chloride | Carbon tet. | 1,2-DCA | TCE | 1,2-DCP | cis-1,3-DCP | 1,1,2-TCA | PCE | Bromoform | 1,4-DCB | Benzene |
|-----------------|---------------------------|------------------------|--------------------|----------------|--------------------|------------------------|----------------------|----------------|----------------------|--------------------|--------------------|
| 06/02/94 | 127 | 88 | 104 | 117 | 132 * | 119 | 124 | 132 * | 121 | 86 | 119 |
| | 112 | 101 | 99 | 103 | 121 | 116 | 115 | 115 | 112 | 101 | 117 |
| 06/03/94 | 117 | 91 | 89 | 101 | 115 | 109 | 109 | 113 | 105 | 97 | 109 |
| | 96 | 38 * | 90 | 90 | 103 | 91 | 103 | 107 | 101 | 94 | 108 |
| | 97 | 60 * | 92 | 92 | 99 | 103 | 100 | 106 | 101 | 98 | 108 |
| 06/06/94 | 94 | 107 | 98 | 104 | 110 | 107 | 101 | 107 | 112 | 87 | 104 |
| | 95 | 78 | 88 | 106 | 112 | 110 | 101 | 112 | 113 | 95 | 109 |
| | 88 | 87 | 90 | 100 | 103 | 110 | 110 | 93 | 105 | 101 | 117 |
| 07/08/94 | 91 | 50 * | 84 | 83 | 96 | 88 | 89 | 93 | 87 | 82 | 112 |
| | 99 | 34 * | 92 | 88 | 101 | 83 | 91 | 93 | 86 | 81 | 111 |
| | 98 | 36 * | 93 | 87 | 103 | 78 | 90 | 95 | 84 | 76 | 107 |
| QC LIMITS | 50-150% | 70-125% | 70-125% | 70-125% | 70-125% | 70-125% | 70-125% | 70-125% | 70-125% | 70-125% | 70-125% |
| *OUT OF LIMITS: | Vinyl chloride 0 of 11 | Carbon tet. 5 of 11 | 1,2-DCA 0 of 11 | TCE 0 of 11 | 1,2-DCP 1 of 11 | cis-1,3-DCP 0 of 11 | 1,1,2-TCA 0 of 11 | PCE 1 of 11 | Bromoform 0 of 11 | Benzene 0 of 11 | 1,4-DCB 0 of 11 |

FASP METHOD 8010/8020 NIST LCS SUMMARY

| DATE | Vinyl chloride | Meth. Chlори | 1,1-DCA | Chloroform | TCE | 1,2-DCP | PCE | Chlorobenzen | Benzene | Toluene | QC LIMIT |
|----------|----------------|--------------|---------|------------|-----|---------|-----|--------------|---------|---------|----------|
| 06/02/94 | 100 | 88 | 76 | 85 | 68 | 80 | 65 | 56 | 86 | 67 | 50-150% |
| 06/03/94 | 101 | 96 | 82 | 87 | 67 | 77 | 67 | 62 | 79 | 70 | 50-150% |
| 06/06/94 | 82 | 94 | 73 | 90 | 79 | 80 | 74 | 73 | 78 | 69 | 50-150% |
| 07/08/94 | 85 | 87 | 68 | 76 | 59 | 71 | 57 | 62 | 76 | 66 | 50-150% |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/02/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 12.7 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 8.8 | | 5 |
| 1,2-Dichloroethane | 10.4 | | 1 |
| Trichloroethene | 11.7 | | 1 |
| 1,2-Dichloropropane | 13.2 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 11.9 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 12.4 | | 1 |
| Tetrachloroethene | 13.2 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 12.1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 8.6 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 108 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 11.9 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 105 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/02/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 11.2 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 10.1 | | 5 |
| 1,2-Dichloroethane | 9.9 | | 1 |
| Trichloroethene | 10.3 | | 1 |
| 1,2-Dichloropropane | 12.1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 11.6 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 11.5 | | 1 |
| Tetrachloroethene | 11.5 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 11.2 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 10.1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 96 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 11.7 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 104 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 11.7 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 9.1 | | 5 |
| 1,2-Dichloroethane | 8.9 | | 1 |
| Trichloroethene | 10.1 | | 1 |
| 1,2-Dichloropropane | 11.5 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 10.9 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 10.9 | | 1 |
| Tetrachloroethene | 11.3 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 10.5 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 9.7 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 92 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 10.9 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 91 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 9.6 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 3.8 | | 5 |
| 1,2-Dichloroethane | 9.0 | | 1 |
| Trichloroethene | 9.0 | | 1 |
| 1,2-Dichloropropane | 10.3 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 9.1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 10.3 | | 1 |
| Tetrachloroethene | 10.7 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 10.1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 9.4 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 85 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 10.8 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 92 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 3

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 9.7 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 6.0 | | 5 |
| 1,2-Dichloroethane | 9.2 | | 1 |
| Trichloroethene | 9.2 | | 1 |
| 1,2-Dichloropropane | 9.9 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 10.3 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 10.0 | | 1 |
| Tetrachloroethene | 10.6 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 10.1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 9.8 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 86 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 10.8 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 88 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/06/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | 9.4 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 10.7 | | 2 |
| 1,2-Dichloroethane | 9.8 | | 1 |
| Trichloroethene | 10.4 | | 1 |
| 1,2-Dichloropropane | 11.0 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 10.7 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 10.1 | | 1 |
| Tetrachloroethene | 10.7 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 11.2 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 8.7 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 87 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 10.4 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 97 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/06/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | 9.5 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 7.8 | | 2 |
| 1,2-Dichloroethane | 8.8 | | 1 |
| Trichloroethene | 10.6 | | 1 |
| 1,2-Dichloropropane | 11.2 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 11.0 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 10.1 | | 1 |
| Tetrachloroethene | 11.2 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 11.3 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 9.5 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 88 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 10.9 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 105 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 3

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/06/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | 8.8 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 8.7 | | 2 |
| 1,2-Dichloroethane | 9.0 | | 1 |
| Trichloroethene | 10.0 | | 1 |
| 1,2-Dichloropropane | 10.3 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 11.0 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 10.3 | | 1 |
| Tetrachloroethene | 11.1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 11.0 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 9.3 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 86 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 10.5 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 98 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/08/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | 9.1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 5.0 | | 5 |
| 1,2-Dichloroethane | 8.4 | | 1 |
| Trichloroethene | 8.3 | | 1 |
| 1,2-Dichloropropane | 9.6 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 8.8 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 8.9 | | 1 |
| Tetrachloroethene | 9.3 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 8.7 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 8.2 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 81 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 11.2 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 95 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/08/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | 9.9 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 3.4 | | 5 |
| 1,2-Dichloroethane | 9.2 | | 1 |
| Trichloroethene | 8.8 | | 1 |
| 1,2-Dichloropropane | 10.1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 8.3 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 9.1 | | 1 |
| Tetrachloroethene | 9.3 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 8.6 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 8.1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 84 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 11.1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 95 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

LCS 3

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/08/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | 9.8 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 3.6 | | 5 |
| 1,2-Dichloroethane | 9.3 | | 1 |
| Trichloroethene | 8.7 | | 1 |
| 1,2-Dichloropropane | 10.3 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 7.8 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 9.0 | | 1 |
| Tetrachloroethene | 9.5 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 8.4 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 7.6 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 88 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 10.7 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 93 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

NIST LCS

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/02/94

Sample Matrix: Soil Gas
 Units: ng/5mL
 Dilution Factor: 1
 Sample Volume: 5 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 50.8 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | 60.7 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | 62.9 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | 85.5 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | 75.0 | | 1 |
| 1,2-Dichloropropane | 75.8 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 91.9 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | 51.4 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 103 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 54.8 | | 1 |
| Toluene | 53.2 | | 1 |
| Chlorobenzene | 50.5 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 105 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

NIST LCS

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ng/5mL
 Dilution Factor: 1
 Sample Volume: 5 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 51.3 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | 66.5 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | 67.8 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | 87.9 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | 74.0 | | 1 |
| 1,2-Dichloropropane | 73.2 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 95.3 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | 57.3 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 98 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 50.8 | | 1 |
| Toluene | 55.6 | | 1 |
| Chlorobenzene | 57.3 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 90 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

NIST LCS

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/06/94

Sample Matrix: Soil Gas
 Units: ng/5mL
 Dilution Factor: 1
 Sample Volume: 5 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | 41.9 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | 64.9 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | 60.5 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | 90.7 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | 86.7 | | 1 |
| 1,2-Dichloropropane | 76.0 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 105 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | 67.1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 100 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 49.6 | | 1 |
| Toluene | 54.4 | | 1 |
| Chlorobenzene | 75.7 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 98 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

NIST LCS

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/08/94

Sample Matrix: Soil Gas
 Units: ng/5mL
 Dilution Factor: 1
 Sample Volume: 5 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | 43.6 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | 59.7 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | 56.4 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | 76.6 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | 65.0 | | 1 |
| 1,2-Dichloropropane | 67.1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 81.2 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | 56.8 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 97 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 48.5 | | 1 |
| Toluene | 51.8 | | 1 |
| Chlorobenzene | 52.9 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 94 |

EPA METHOD 8010/8020 MATRIX SPIKE SAMPLE SUMMARY

FASP METHOD 8010/8020 MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

Site: Phoenix, Arizona

QC Sample: H-8

Date Analyzed: June 02,1994

| COMPOUND | Spike Added (ng/ml) | Sample Conc. (ng/ml) | MS Conc. (ng/ml) | MS % Recovery | MSD Conc. (ng/ml) | MSD % Recovery | RECOVERY QC LIMITS | RPD | RPD QC LIMITS |
|----------------|------------------------|-------------------------|---------------------|------------------|----------------------|-------------------|-----------------------|-----|------------------|
| Vinyl chloride | 10 | ND | 10.7 | 107.0 | 10.6 | 106.0 | 65-130% | 1 | +/-50 |
| Carbon tet. | 10 | ND | 8.5 | 85.0 | 10.4 | 104.0 | 65-130% | -20 | +/-50 |
| 1,2-DCA | 10 | ND | 8.5 | 85.0 | 9.4 | 94.0 | 65-130% | -10 | +/-50 |
| TCE | 10 | ND | 10.3 | 103.0 | 10.2 | 102.0 | 65-130% | 1 | +/-50 |
| 1,2-DCP | 10 | ND | 12.1 | 121.0 | 11.5 | 115.0 | 65-130% | 5 | +/-50 |
| cis-1,3-DCP | 10 | ND | 11.7 | 117.0 | 11.1 | 111.0 | 65-130% | 5 | +/-50 |
| 1,1,2-TCA | 10 | ND | 11.6 | 116.0 | 10.7 | 107.0 | 65-130% | 8 | +/-50 |
| PCE | 10 | 7.8 | 19.8 | 120.0 | 18.1 | 103.0 | 65-130% | 15 | +/-50 |
| Bromoform | 10 | ND | 11.2 | 112.0 | 11.4 | 114.0 | 65-130% | -2 | +/-50 |
| 1,4-DCB | 10 | ND | 10.0 | 100.0 | 9.2 | 92.0 | 65-130% | 8 | +/-50 |
| Benzene | 10 | 0.8 | 11.6 | 108.0 | 11.6 | 108.0 | 65-130% | 0 | +/-50 |

*Out of advisory QC limits

ND: Analyte not detected

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-8 MS

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/02/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 10.7 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 8.5 | | 5 |
| 1,2-Dichloroethane | 8.5 | | 1 |
| Trichloroethene | 10.3 | | 1 |
| 1,2-Dichloropropane | 12.1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 11.7 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 11.6 | | 1 |
| Tetrachloroethene | 19.8 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 11.2 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 10.0 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 92 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 11.6 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 101 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-8 MSD

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/02/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | 10.6 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | 10.4 | | 5 |
| 1,2-Dichloroethane | 9.4 | | 1 |
| Trichloroethene | 10.2 | | 1 |
| 1,2-Dichloropropane | 11.5 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | 11.1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | 10.7 | | 1 |
| Tetrachloroethene | 18.1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | 11.4 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | 9.2 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 85 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | 11.6 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 103 |

EPA METHOD 8010/8020 SAMPLE RESULTS

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-1

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 98 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 103 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-2

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 103 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 90 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-3

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 103 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 104 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-4

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 102 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 90 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-5

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 3.0 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 101 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 92 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-6

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 5.5 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 99 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 90 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-7

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 22 | E | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 96 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 93 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-7 D

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 2
 Sample Volume: 5 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|--------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chlormethane | <4 | | 4 |
| Vinyl Chloride | <2 | | 2 |
| Bromomethane/Chloroethane | <2 | | 2 |
| Trichlorofluoromethane | <10 | | 10 |
| 1,1-Dichloroethene | <2 | | 2 |
| Methylene Chloride | <2 | | 2 |
| t-1,2-Dichloroethene | <2 | | 2 |
| 1,1-Dichloroethane | <2 | | 2 |
| Cis-1,2-Dichloroethene | <2 | | 2 |
| Chloroform | <2 | | 2 |
| 1,1,1-Trichloroethane | <2 | | 2 |
| Carbon Tetrachloride | <10 | | 10 |
| 1,2-Dichloroethane | <2 | | 2 |
| Trichloroethene | <2 | | 2 |
| 1,2-Dichloropropane | <2 | | 2 |
| Bromodichloromethane | <2 | | 2 |
| cis-1,3-Dichloropropene | <2 | | 2 |
| trans-1,3-Dichloropropene | <2 | | 2 |
| 1,1,2-Trichloroethane | <2 | | 2 |
| Tetrachloroethene | 21 | D | 2 |
| Dibromochloromethane | <2 | | 2 |
| Chlorobenzene | <2 | | 2 |
| Bromoform | <2 | | 2 |
| 1,1,2,2-Tetrachloroethane | <2 | | 2 |
| 1,3-Dichlorobenzene | <2 | | 2 |
| 1,4-Dichlorobenzene | <2 | | 2 |
| 1,2-Dichlorobenzene | <2 | | 2 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 98 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <2 | | 2 |
| Toluene | <2 | | 2 |
| Chlorobenzene | <2 | | 2 |
| Ethylbenzene | <2 | | 2 |
| p,m-Xylene | <2 | | 2 |
| o-Xylene | <2 | | 2 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 91 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-8

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94 Sample Matrix: Soil Gas
 Sample Analysis Date: 06/02/94 Units: ug/L
 Preliminary Report Date: 06/03/94 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 7.8 | JL | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 88 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 102 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-9

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 14 | JL | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 101 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 102 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-10

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/03/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 101 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 108 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-11

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/09/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 102 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 93 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-12

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 14 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 100 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 89 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-13

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/07/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 17 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 98 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 101 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-14

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/07/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 16 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 100 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 104 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-15

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/07/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 8.0 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 92 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 101 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-16

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/07/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 24 | E | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 97 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 103 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-16 D

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/07/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 2
 Sample Volume: 5 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|--------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chlormethane | <2 | | 2 |
| Vinyl Chloride | <2 | | 2 |
| Bromomethane/Chloroethane | <2 | | 2 |
| Trichlorofluoromethane | <2 | | 2 |
| 1,1-Dichloroethene | <2 | | 2 |
| Methylene Chloride | <2 | | 2 |
| t-1,2-Dichloroethene | <2 | | 2 |
| 1,1-Dichloroethane | <2 | | 2 |
| Cis-1,2-Dichloroethene | <2 | | 2 |
| Chloroform | <2 | | 2 |
| 1,1,1-Trichloroethane | <2 | | 2 |
| Carbon Tetrachloride | <4 | | 4 |
| 1,2-Dichloroethane | <2 | | 2 |
| Trichloroethene | <2 | | 2 |
| 1,2-Dichloropropane | <2 | | 2 |
| Bromodichloromethane | <2 | | 2 |
| cis-1,3-Dichloropropene | <2 | | 2 |
| trans-1,3-Dichloropropene | <2 | | 2 |
| 1,1,2-Trichloroethane | <2 | | 2 |
| Tetrachloroethene | 22 | D | 2 |
| Dibromochloromethane | <2 | | 2 |
| Chlorobenzene | <2 | | 2 |
| Bromoform | <2 | | 2 |
| 1,1,2,2-Tetrachloroethane | <2 | | 2 |
| 1,3-Dichlorobenzene | <2 | | 2 |
| 1,4-Dichlorobenzene | <2 | | 2 |
| 1,2-Dichlorobenzene | <2 | | 2 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 79 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <2 | | 2 |
| Toluene | <2 | | 2 |
| Chlorobenzene | <2 | | 2 |
| Ethylbenzene | <2 | | 2 |
| p,m-Xylene | <2 | | 2 |
| o-Xylene | <2 | | 2 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 77 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-17

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 93 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 91 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-17 DUP

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 87 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 86 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-18

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/09/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 9.2 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 103 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 94 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-19

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/09/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 8.8 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 99 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 90 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-20

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/09/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 10 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 103 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 95 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-21

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/09/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 8.7 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 99 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 90 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-22

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/02/94
 Sample Analysis Date: 06/02/94
 Preliminary Report Date: 06/02/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 100 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 105 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-23

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | <1 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 94 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 88 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-24

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/03/94
 Sample Analysis Date: 06/03/94
 Preliminary Report Date: 06/04/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <2 | | 2 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <5 | | 5 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 3.0 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 98 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 88 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-25

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 06/06/94
 Sample Analysis Date: 06/06/94
 Preliminary Report Date: 06/07/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <2 | | 2 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 17 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 103 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 102 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-26

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/09/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 9.4 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 104 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 93 |

SUPERFUND ID NUMBER

9G6

CLIENT IDENTIFICATION

H-27

REGION 9 FASP VOLATILE ORGANICS RESULTS

Sample Collection Date: 07/08/94
 Sample Analysis Date: 07/08/94
 Preliminary Report Date: 07/09/94

Sample Matrix: Soil Gas
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 10 mL

| Method 8010 Compound | RESULTS | Q | FMDL |
|---------------------------------------|-------------------------|----------|------------------|
| Dichlorodifluoromethane/Chloromethane | <1 | | 1 |
| Vinyl Chloride | <1 | | 1 |
| Bromomethane/Chloroethane | <1 | | 1 |
| Trichlorofluoromethane | <1 | | 1 |
| 1,1-Dichloroethene | <1 | | 1 |
| Methylene Chloride | <1 | | 1 |
| trans-1,2-Dichloroethene | <1 | | 1 |
| 1,1-Dichloroethane | <1 | | 1 |
| cis-1,2-Dichloroethene | <1 | | 1 |
| Chloroform | <1 | | 1 |
| 1,1,1-Trichloroethane | <1 | | 1 |
| Carbon Tetrachloride | <5 | | 5 |
| 1,2-Dichloroethane | <1 | | 1 |
| Trichloroethene | <1 | | 1 |
| 1,2-Dichloropropane | <1 | | 1 |
| Bromodichloromethane | <1 | | 1 |
| cis-1,3-Dichloropropene | <1 | | 1 |
| trans-1,3-Dichloropropene | <1 | | 1 |
| 1,1,2-Trichloroethane | <1 | | 1 |
| Tetrachloroethene | 9.2 | | 1 |
| Dibromochloromethane | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Bromoform | <1 | | 1 |
| 1,1,2,2-Tetrachloroethane | <1 | | 1 |
| 1,3-Dichlorobenzene | <1 | | 1 |
| 1,4-Dichlorobenzene | <1 | | 1 |
| 1,2-Dichlorobenzene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | 1-Chloro-2-Bromopropane | | 105 |

| METHOD 8020 COMPOUND | RESULTS | Q | FMDL |
|-----------------------------|----------------|----------|------------------|
| Benzene | <1 | | 1 |
| Toluene | <1 | | 1 |
| Chlorobenzene | <1 | | 1 |
| Ethylbenzene | <1 | | 1 |
| p,m-Xylene | <1 | | 1 |
| o-Xylene | <1 | | 1 |
| | Surrogate | | Percent Recovery |
| | Fluorobenzene | | 94 |

TRAFFIC REPORTS



United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818, Alexandria, VA 22313
703-557-2490 FTS 557-2490

Special Analytical Service

Packing List/Chain of Custody

SAS No.

| 1. Project Code <i>N/A</i> | Account Code <i>N/A</i> | 2. Region No. <i>9</i> | Sampling Co. <i>AOEQ</i> | 4. Date Shipped <i>6-2-94</i> | Carrier <i>AUTO</i> | 6. Sample Description (Enter in Column A) <i>N/A</i> | 7. Preservative (Enter in Column C) | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--------------------------------|----------------------------------|--|--|--|--------------------------------------|--------------------|-----------------------|-----|----|----|-----|----|-----|-----|-----|-----|-----|------|-----|--|--|--|--|--|-------------------------|
| Regional Information <i>N/A</i> | | Sampler (Name) <i>NICK J. FATHERLY</i> | | Airbill Number <i>N/A</i> | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-Superfund Program <i>N/A</i> | | Sampler Signature <i>Nick J. Fatherly</i> | | 5. Ship To <i>FASD</i> | <i>VEI</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Site Name <i>SIBW</i> | | 3. Type of Activity <table border="1"><tr><td>Lead</td><td>Pre.</td><td>RIFS</td><td>CLEM</td></tr><tr><td>SF</td><td>Remedial</td><td>RD</td><td>REMA</td></tr><tr><td>PRP</td><td>PA</td><td>RA</td><td>REM</td></tr><tr><td>ST</td><td>SSI</td><td>O&M</td><td>OIL</td></tr><tr><td>FED</td><td>LSI</td><td>NPLD</td><td>UST</td></tr></table> | Lead | Pre. | RIFS | CLEM | SF | Remedial | RD | REMA | PRP | PA | RA | REM | ST | SSI | O&M | OIL | FED | LSI | NPLD | UST | | | | | 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other | <i>AIR</i> (Specify) |
| Lead | Pre. | RIFS | CLEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| SF | Remedial | RD | REMA | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRP | PA | RA | REM | | | | | | | | | | | | | | | | | | | | | | | | | |
| ST | SSI | O&M | OIL | | | | | | | | | | | | | | | | | | | | | | | | | |
| FED | LSI | NPLD | UST | | | | | | | | | | | | | | | | | | | | | | | | | |
| City, State <i>Tempe AZ</i> | | Site Spill ID <i>N/A</i> | | | | | 1. HCl 2. HNO3 3. NAHSO4 4. H ₂ SO4 5. NAOH 6. Other (SAS) (Specify) 7. Ice only N. Not preserved | | | | | | | | | | | | | | | | | | | | | |
| Sample Numbers | A Matrix Enter from Box 6 | B Conc Low Med High | C Preservative Used from Box 7 | D Analysis | E Sample used for spike and/or duplicate | F Regional Specific Tracking Number or Tag Number | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Sampler Initials | J Designated Field QC | | | | | | | | | | | | | | | | | | |
| 1. <i>A-5</i> | <i>8</i> | <i>L</i> | <i>N</i> | <i>8010/8020m</i> | | | | <i>6/2/94</i> | <i>756</i> | <i>NF</i> | | | | | | | | | | | | | | | | | | |
| 2. <i>H-22</i> | <i>8</i> | <i>L</i> | <i>N</i> | | | | | <i>1009</i> | <i>NF</i> | | | | | | | | | | | | | | | | | | | |
| 3. <i>H-3</i> | <i>8</i> | <i>L</i> | <i>N</i> | | | | | <i>1043</i> | <i>NF</i> | | | | | | | | | | | | | | | | | | | |
| 4. <i>H-1</i> | <i>8</i> | <i>L</i> | <i>N</i> | | | <i>low recovery</i> | | <i>1057</i> | <i>NF</i> | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shipment for SAS complete? (Y/N) <i>O</i> | NOTE ON COR#011057 A-11 DATA PACKAGE REQUESTED | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CHAIN OF CUSTODY RECORD

| | | | | | |
|---|------------------------------------|--|------------------------------------|-----------------------------------|----------------------------------|
| Relinquished by: (Signature) <i>Nick J. Fatherly</i> | Date / Time <i>6/2/94 11:19</i> | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Received by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <i>John Smith</i> | Date / Time <i>6/2/94 11:14</i> | Remarks | Is custody seal intact? Y/N/none |
| | | | Split Samples | <input type="checkbox"/> Accepted | (Signature) |
| | | | | <input type="checkbox"/> Declined | |

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United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Special Analytical Service

Packing List/Chain of Custody

SAS No.

| 1. Project Code <i>NJ-NIA</i> | Account Code <i>NIA</i> | 2. Region No. <i>9</i> | Sampling Co. <i>ADEQ</i> | 4. Date Shipped <i>6-2-94</i> | Carrier <i>AUTO</i> | 6. Sample Description <i>(Enter in Column A)</i> | 7. Preservative <i>(Enter in Column C)</i> | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|--|--------------------------------|---|--|---|---|---|--------------------|-----------------------|----------|----|------|-----|----|----|-----|-----|-----|-----|-----|-----|-----|------|-----|---|--|
| Regional Information <i>NIA</i> | | Sampler Name <i>M. Kalafathely</i> | | Airbill Number <i>NIA</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Non-Superfund Program <i>NIA</i> | | Sampler Signature <i>M. Kalafathely</i> | | 5. Ship To <i>FASP</i> | | 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify) <i>AI R</i> | | | | | | | | | | | | | | | | | | | | | |
| Site Name <i>Si BW</i> | | 3. Type of Activity <i>Remedial</i> | | 6. Remedial Removal <table border="1"><tr><td>Lead</td><td>Pre.</td><td>RIFS</td><td>CLEM</td></tr><tr><td>SF</td><td>Remedial</td><td>RD</td><td>REMA</td></tr><tr><td>PRP</td><td>PA</td><td>RA</td><td>REM</td></tr><tr><td>ST.</td><td>SSI</td><td>O&M</td><td>OIL</td></tr><tr><td>FED</td><td>LSI</td><td>NPLD</td><td>UST</td></tr></table> | | Lead | Pre. | RIFS | CLEM | SF | Remedial | RD | REMA | PRP | PA | RA | REM | ST. | SSI | O&M | OIL | FED | LSI | NPLD | UST | 7. Other (SAS) (Specify) 7. Ice only N. Not preserved | |
| Lead | Pre. | RIFS | CLEM | | | | | | | | | | | | | | | | | | | | | | | | |
| SF | Remedial | RD | REMA | | | | | | | | | | | | | | | | | | | | | | | | |
| PRP | PA | RA | REM | | | | | | | | | | | | | | | | | | | | | | | | |
| ST. | SSI | O&M | OIL | | | | | | | | | | | | | | | | | | | | | | | | |
| FED | LSI | NPLD | UST | | | | | | | | | | | | | | | | | | | | | | | | |
| City, State <i>Tempe AZ</i> | | Site Spill ID <i>NIA</i> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Numbers | A Matrix Enter from Box 6 | B Conc Low Med High | C Preservative Used from Box 7 | D Analysis <i>8010/8020W</i> | E Sample used for spike and/or duplicate | F Regional Specific Tracking Number or Tag Number | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection <i>6-2-94 1119 NF</i> | I Sampler Initials | J Designated Field QC | | | | | | | | | | | | | | | | | |
| 1. <i>H-8</i> | <i>8</i> | <i>L</i> | <i>N</i> | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <i>H-9</i> | <i>8</i> | <i>L</i> | <i>N</i> | <i>↓</i> | | | | <i>134</i> | <i>NF</i> | | | | | | | | | | | | | | | | | | |
| 3. <i>H-10</i> | <i>8</i> | <i>L</i> | <i>N</i> | <i>↓</i> | | | | <i>1207</i> | <i>NF</i> | | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shipment for SAS complete? (Y/N) <i>Y</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CHAIN OF CUSTODY RECORD

| | | | | | |
|---|-----------------------------------|---|--|------------------------|--|
| Relinquished by: (Signature) <i>M. Kalafathely</i> | Date / Time <i>6/2/94 1400</i> | Received by: (Signature) <i>FASP LAB SITE</i> | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Received by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <i>Blair Clark</i> | Date / Time <i>6/2/94 1415</i> | Remarks <i>4455</i> | Is custody seal intact? Y/N/none <i>Y</i> |
| | | Split Samples | <input type="checkbox"/> Accepted (Signature) <input type="checkbox"/> Declined | | |

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United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Special Analytical Service

Packing List/Chain of Custody

SAS No.

| 1. Project Code <i>N/A</i> | Account Code <i>N/A</i> | 2. Region No. <i>9</i> | Sampling Co. <i>ADEQ</i> | 4. Date Shipped <i>6-3-94</i> | Carrier <i>AUTO</i> | 6. Sample Description (Enter in Column A) | 7. Preservative (Enter in Column C) | | | |
|---|----------------------------|--|--------------------------------|----------------------------------|--|---|-------------------------------------|--------------------------------------|--------------------|-----------------------|
| Regional Information <i>N/A</i> | | Sampler (Name) <i>NICOL FATHERO</i> | | Airbill Number <i>NIA</i> | | | | | | |
| Non-Superfund Program <i>N/A</i> | | Sampler Signature <i>Nicole Fathero</i> | | 5. Ship To <i>FASP</i> | | 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify) <i>air</i> | | | | |
| Site Name <i>STBW</i> | | 3. Type of Activity Remedial Removal | | 6. Air | | N. Not preserved | | | | |
| City, State <i>Tempe AZ</i> | | Lead Pre-RIFs CLEM | | SF Remedial RD REMA | | PRP PA RA REM | | | | |
| Site Spill ID <i>N/A</i> | | ST SSI O&M OIL UST | | FED LSI NPLD | | | | | | |
| Sample Numbers | A Matrix Enter from Box 6 | B Conc Low Med High | C Preservative Used from Box 7 | D Analysis | E Sample used for spike and/or duplicate | F Regional Specific Tracking Number or Tag Number | G Station Location Identifier | H Mo/Day Year/Time Sample Collection | I Sampler Initials | J Designated Field QC |
| 1. H-5 | 8 | L | N | 8010/8028m | | | | 6-3-94 | 1042 | NC |
| 2. H-6 | 8 | L | N | | | | | 1051 | NC | |
| 3. H-24 | 8 | L | N | | | | | 1115 | NC | |
| 4. H-7 | 8 | L | N | | | | | 1124 | NC | |
| 5. H-12 | 8 | L | N | | | | | 1140 | NY | |
| 6. H-17 | 8 | M | N | | | ★ data package requested ★ LAB AC Z ADGZ | | 1241 | NY | |
| 7. | | | | | | | | | | |
| 8. | | | | | | | | | | |
| 9. | | | | | | | | | | |
| 10. | | | | | | | | | | |
| Shipment for SAS complete? (Y/N) <i>Y</i> | | | | | | | | | | |

CHAIN OF CUSTODY RECORD

| | | | | | |
|---|------------------------------------|---|------------------------------|---|----------------------------------|
| Relinquished by: (Signature) <i>Nicole Fathero</i> | Date / Time <i>6/3/94 14:52</i> | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Received by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <i>Bogatin</i> | Date / Time | Remarks | Is custody seal intact? Y/N/none |
| | | | <i>6/3/94 14:52</i> | | |
| | | | | Split Samples <input type="checkbox"/> Accepted (Signature) | |
| | | | | <input type="checkbox"/> Declined | |

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Contract Laboratory Program Sample Management Office
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703-557-2490 FTS 557-2490

Special Analytical Service

Packing List/Chain of Custody

SAS No.

| 1. Project Code | Account Code | 2. Region No. | Sampling Co. | 4. Date Shipped | Carrier | 6. Sample Description (Enter in Column A) | 7. Preservative (Enter in Column C) | | | |
|----------------------------------|---------------------------|---------------------|--------------------------------|-----------------|--|--|---|--------------------------------------|--------------------|-----------------------|
| Regional Information | | 9 | ADEQ | 6-3-94 | AUTO | 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other | 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Other (SAS) (Specify) 7. Ice only N. Not preserved | | | |
| Non-Superfund Program | | Sampler (Name) | | Airbill Number | | | | | | |
| | | NICKI FATHERLY | | NIA | | | | | | |
| Site Name | | Sampler Signature | | 5. Ship To | | | | | | |
| SIBW | | NICKI FATHERLY | | RASP | | | | | | |
| City, State | | Site Spill ID | | VET | | | | | | |
| Tempe AZ | | | | | | | | | | |
| Sample Numbers | A Matrix Enter from Box 6 | B Conc Low Med High | C Preservative Used from Box 7 | D Analysis | E Sample used for spike and/or duplicate | F Regional Specific Tracking Number or Tag Number | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Sampler Initials | J Designated Field QC |
| 1. H-23 | 8 | L | N | 8010/8020m | | | | 6/3/94 | 702 | NF |
| 2. H-23 | 8 | L | N | | | | | 730 | NF | |
| 3. H-24 | 8 | L | N | | | | | 819 | NF | |
| 8 TRIP BLANK STANDARDS L N | | | | | | | | | | |
| 5. | | | | | | | | | | |
| 6. | | | | | | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | | | | | | |
| 9. | | | | | | | | | | |
| 10. | | | | | | | | | | |
| Shipment for SAS complete? (Y/N) | | | | | | | | | | |

CHAIN OF CUSTODY RECORD

| | | | | | |
|--|-------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Nicki Fatherly | 6/3/94 9:34 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Received by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | Is custody seal intact? Y/N/none |
| | | R. Kenne | 6/3/94 9:34 | | |
| Split Samples <input type="checkbox"/> Accepted (Signature) <input type="checkbox"/> Declined | | | | | |

EPA Form

DISTRIBUTION:

White - Region Copy Yellow - SMO Copy Gold - Lab Copy Pink - Lab Copy for Return to SMO

S 011054



United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Special Analytical Service

Packing List/Chain of Custody

SAS No.

| 1. Project Code <i>N/A</i> | Account Code <i>N/A</i> | 2. Region No. <i>9</i> | Sampling Co. <i>ADEQ</i> | 4. Date Shipped <i>6-16-94</i> | Carrier <i>AUTO</i> | 6. Sample Description (Enter in Column A) | 7. Preservative (Enter in Column C) | | | |
|--|----------------------------|---|--------------------------------|--|--|---|--|--------------------------------------|--------------------|-----------------------|
| Regional Information <i>N/A</i> | | Sampler (Name) <i>Mick Fatherley</i> | Airbill Number <i>N/A</i> | 5. Ship To <i>Mick Fatherley FARL-VET</i> | | | 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NaOH 6. Other (SAS) (Specify) 7. Ice only N. Not preserved | | | |
| Non-Superfund Program <i>N/A</i> | | Sampler Signature <i>Mick Fatherley</i> | | | | | | | | |
| Site Name <i>SIBW</i> | | 3. Type of Activity Lead Remedial Removal SF <input type="checkbox"/> RIFS <input checked="" type="checkbox"/> CLEM <input type="checkbox"/> PRP <input type="checkbox"/> PA <input type="checkbox"/> RD <input type="checkbox"/> REMA <input type="checkbox"/> ST <input type="checkbox"/> SSI <input type="checkbox"/> RA <input type="checkbox"/> REM <input type="checkbox"/> FED <input checked="" type="checkbox"/> LSI <input type="checkbox"/> O&M <input type="checkbox"/> OIL <input type="checkbox"/> NPLD <input type="checkbox"/> UST <input type="checkbox"/> | | 5. Ship To <i>Mick Fatherley FARL-VET</i> | | | | | | |
| City, State <i>Tempe AZ</i> | | Site Spill ID <i>N/A</i> | | | | | | | | |
| Sample Numbers | A Matrix Enter from Box 6 | B Conc Low Med High | C Preservative Used from Box 7 | D Analysis | E Sample used for spike and/or duplicate | F Regional Specific Tracking Number or Tag Number | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Sampler Initials | J Designated Field QC |
| 1. H-13 | 8 | L | N | SO10/8020m | | | | 6-6-94/1139 | NC | |
| 2. H-14 | 8 | L | N | | | | | 1209 | NC | |
| 3. H-17 | 8 | L | N | | | | | 1222 | NC | |
| 4. H-25 | 8 | L | N | | | | | 12230 | NC | |
| 5. H-15 | 8 | L | N | | | | | ✓ 1239 | NC | |
| 6. | | | | | | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | | | | | | |
| 9. | | | | | | | | | | |
| 10. | | | | | | | | | | |
| Shipment for SAS complete? (Y/N) <i>Y</i> | | | | | | | | | | |

CHAIN OF CUSTODY RECORD

| | | | | | |
|---|---------------------------------------|--|------------------------------------|--|----------------------------------|
| Relinquished by: (Signature) <i>Mick Fatherley</i> | Date / Time .. <i>6/6/94 14:00</i> | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Received by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <i>Tammy Chin</i> | Date / Time <i>6/6/94 14:00</i> | Remarks | Is custody seal intact? Y/N/none |
| | | | | Split Samples <input type="checkbox"/> Accepted (Signature) <input type="checkbox"/> Declined | |

EPA Form

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S 011056



United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Special Analytical Service

Packing List/Chain of Custody

SAS No.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------------|--|---------------------------------------|--|----------------------------------|---|---|--|---------------------------------|-----------------------|------|-----|----|----|-----|----|-----|-----|-----|-----|-----|------|-----|--|--|--|--|
| 1. Project Code <i>N/14</i> | Account Code <i>N/A</i> | 2. Region No. <i>91</i> | Sampling Co. <i>ADEQ</i> | 4. Date Shipped <i>7-8-94</i> | Carrier <i>AUTO</i> | 6. Sample Description <i>(Enter in Column A)</i> | 7. Preservative <i>(Enter in Column C)</i> | | | | | | | | | | | | | | | | | | | | |
| Regional Information <i>N/A</i> | | Sampler (Name) <i>Melissa J. Satherly</i> | | Airbill Number <i>N/A</i> | | | | | | | | | | | | | | | | | | | | | | | |
| Non-Superfund Program <i>N/A</i> | | Sampler Signature <i>NICKI R. RAY</i> | | 5. Ship To <i>FASP VEI</i> | | 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify) <i>AIR</i> N. Not preserved | | | | | | | | | | | | | | | | | | | | | |
| Site Name <i>SIBW</i> | | 3. Type of Activity <table border="1"> <tr><td>Lead</td><td>Pre.</td><td>RIFS</td><td>CLEM</td></tr> <tr><td>SF</td><td>Remedial</td><td>RD</td><td>REMA</td></tr> <tr><td>PRP</td><td>PA</td><td>RA</td><td>REM</td></tr> <tr><td>ST</td><td>SSI</td><td>O&M</td><td>OIL</td></tr> <tr><td>FED</td><td>LSI</td><td>NPLD</td><td>UST</td></tr> </table> | | Lead | Pre. | RIFS | CLEM | SF | Remedial | RD | REMA | PRP | PA | RA | REM | ST | SSI | O&M | OIL | FED | LSI | NPLD | UST | | | | |
| Lead | Pre. | RIFS | CLEM | | | | | | | | | | | | | | | | | | | | | | | | |
| SF | Remedial | RD | REMA | | | | | | | | | | | | | | | | | | | | | | | | |
| PRP | PA | RA | REM | | | | | | | | | | | | | | | | | | | | | | | | |
| ST | SSI | O&M | OIL | | | | | | | | | | | | | | | | | | | | | | | | |
| FED | LSI | NPLD | UST | | | | | | | | | | | | | | | | | | | | | | | | |
| City, State <i>Tempe AZ</i> | Site Spill ID <i>N/A</i> | A Matrix Enter from Box 6 <i>8</i> | B Conc Low Med High <i>L N M N</i> | C Preservative Used from Box 7 <i>N</i> | D Analysis <i>8070/8020 M</i> | E Regional Specific Tracking Number or Tag Number | F Station Location Identifier | G Mo/Day/Year/Time Sample Collection <i>7/8/94 1059</i> | H Sampler Initials <i>JK</i> | I Designated Field QC | | | | | | | | | | | | | | | | | |
| 1. H-11 | 8 | L | N | | | | | 11/8 | | | | | | | | | | | | | | | | | | | |
| 2. H-18 | 8 | L | N | | | | | 11/22 | | | | | | | | | | | | | | | | | | | |
| 3. H-19 | 8 | L | N | | | | | 11/35 | | | | | | | | | | | | | | | | | | | |
| 4. H-20 | 8 | M | N | | | | | 11/46 | | | | | | | | | | | | | | | | | | | |
| 5. H-21 | 8 | M | N | | | | | 11/57 | | | | | | | | | | | | | | | | | | | |
| 6. H-26 | 8 | M | N | | | | | 12/13 | | | | | | | | | | | | | | | | | | | |
| 7. H-27 | 8 | M | N | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shipment for SAS complete? (Y/N) | Page 1 of <u> </u> | Sample Used for Spike and/or Duplicate | | | Additional Sampler Signatures | | Chain of Custody Seal Number | | | | | | | | | | | | | | | | | | | | |

CHAIN OF CUSTODY RECORD

| | | | | | |
|--|-----------------------------------|--|--|-------------|----------------------------------|
| Relinquished by: (Signature) <i>Melissa J. Satherly</i> | Date / Time <i>7/8/94 1059</i> | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <i>Robert J. Gish</i> | Date / Time | Remarks | Is custody seal intact? Y/N/none |
| | | | Split Samples <input type="checkbox"/> Accepted (Signature) <input type="checkbox"/> Declined | | |

EPA Form: 9110-3 (7/91)

DISTRIBUTION: White - Region Copy Yellow - SMO Copy Gold - Lab Copy for Return to Region
Pink - Lab Copy for Return to SMO

See Reverse Side for Additional Standard Instructions

SITE: Phoenix, AZ

ANALYST: BK

| DATE | SAMPLE ID | MATRIX | ANALYSIS | INTL. | COMMENT |
|--------------------|---------------|----------|-----------|-------|-------------|
| 5/31/94 | A-17 | Soil gas | 8010/8020 | BK | 15:45 (H) |
| | A-6 | | | | 15:25 (H) |
| | A-18 | | | | 15:41 |
| | A-3 | | | | 14:50 |
| 6/1/94 | A-9 | Soil gas | 8010/8020 | BK | 7:16 |
| | A-8 | | | | 7:32 |
| | A-15 | | | | 7:50 |
| | A-14 (2 bags) | | | | 8:06 |
| | A-1 | | | | 8:40 |
| | A-2 | | | | 8:56 |
| | A-19 | | | | 9:10 |
| | A-7 | | | | 10:25 |
| | A-16 | | | | 10:49 |
| | A-10 | | | | 11:18 |
| | A-13 | | | | 11:34 |
| | A-12 | | | | 11:52 |
| Split Sample QC | A-11 | | | | 12:22 Split |
| | A-20 | | | | 12:34 |
| 6/2/94 | A-5 | Soil gas | 8010/8020 | BK | 11:56 |
| | H-22 | | | | 10:09 |
| | H-3 | | | | 10:43 |
| | H-1 | | | | 10:57 |
| ✓ | H-8 | | | | 11:19 |
| | H-9 | | | | 11:34 |
| | H-10 | | | | 12:07 |
| 6/3/94 | H-23 | Soil Gas | 8010/8020 | BK | 11:02 |
| | H-2 | | | | 11:30 |
| | H-4 | | | | 8:14 |
| | Spiked Samp. | " | " | | 5:45 |
| | H-5 | | | | 10:42 |
| | H-6 | | | | 10:59 |

SITE: Phoenix, AZ

ANALYST:

| DATE | SAMPLE ID | MATRIX | ANALYSIS | INTL. | COMMENT |
|--------|--|----------|-----------|-------|--|
| 6/3/94 | H-24 H-7 H-12 H-19 1&2 H-19 2&2 | Soil gas | 80/0/8020 | BK | 11:15 11:24 11:40 12:41 (MID) |
| 6/4/94 | (D-12) D-5 D-3 D-2 D-4 D-1 D-14 D-13 | Soil gas | 80/0/8020 | BK | 7:20 ✓ 7:33 (M) 7:44 7:54 8:09 8:21 8:30 8:50 |
| | D-12 | | | | * D-12 on COC is right |
| | | | | | Sample bag should be D-12 instead of D-6 |
| 6/6/94 | H-13 H-16 H-14 H-25 H-15 | Soil gas | 80/0/8020 | BK | 11:59 12:09 12:22 12:30 12:39 |
| 6/8/94 | P-7 P-1 P-3 P-4 P-5 P-6 P-8 P-2 | Soil gas | 80/0/8020 | BK | 6:49 7:04 7:15 7:39 7:53 8:08 8:20 11:29 |

SITE: Phoenix At (SIB-)

ANALYST: RSW

| DATE | SAMPLE ID | MATRIX | ANALYSIS | INTL. | COMMENT |
|--------|--------------|----------|-----------|-------|----------|
| 7/7/94 | O-37 | Soil G+S | 8010/8020 | 05:44 | |
| | O-1 | | | | 06:32 |
| | O-3 | | | | 06:38 |
| | O-2 | | | | 07:28 |
| | O-4 | | | | 07:37 |
| | O-5 | | | | 07:56 |
| | O-6 | | | | 08:12 |
| | O-38 | | | | 08:30 |
| | O-8 (2 bags) | | | | 09:18 QC |
| | O-10 | | | | 09:50 |
| | O-11 | | | | 10:06 |
| | O-12 | | | | 10:28 |
| | O-7 | | | | 10:54 |
| 7/8/94 | I-3 | | | | 06:01 |
| | I-2 | | | | 06:24 |
| | I-1 | | | | 06:44 |
| | I-9 | | | | 07:01 |
| | I-4 | | | | 07:14 |
| | I-5 | | | | 07:31 |
| | I-11 | | | | 07:57 |
| | I-7 | | | | 08:23 |
| | I-10 | | | | 08:00 |
| | I-3 | | | | 08:49 |
| | H-11 | | | | 10:59 |
| | H-18 | | | | 11:10 |
| | H-19 | | | | 11:22 |
| | H-20 | | | | 11:35 |
| | H-21 | | | | 11:46 |
| | H-26 | | | | 11:57 |
| | H-27 | | | | 12:15 |

MISCELLANEOUS

SITE: Phoenix, AZ

METHOD: ~~1~~ Mat 3010 / 8020

ANALYST:

SITE:
METHOD:

ANALYST:

| Date | Int. | Run | Nelson Cycle | Sample ID | Sample Preparation | Comment |
|--------|------|-----|------------------|---|---|----------------------|
| 6/3/94 | BK | 1 | JU03 | CCAL | 10ul A-477 / 10ul A-460 / 5ml H ₂ O | |
| | | 2 | JU032 | LCS | 10ul A-464 / 10ul A-483 / 10ul A-460 / 5ml H ₂ O | |
| | | 3 | JU033 | Blank | 10ul A-483 / 10ul A-460 / 5ml H ₂ O | |
| | | 4 | NIST | 5 ml inj | 5 ml inj / 10ul A-483 / 10ul A-460 / 5ml H ₂ O | 5:50 inj / 11:00 run |
| | | 5 | Spiked samp NIST | 5 ml inj | 5 ml inj / 10ul A-483 / 10ul A-460 / 5ml H ₂ O | 5:55 inj / 10:25 inj |
| | | 6 | H-23 | 10ml inj | 10ml inj / 10ul A-483 / 10ul A-460 / 5ml H ₂ O | 10:30 |
| | | 7 | H-2 | | | 10:34 |
| | | 8 | H-4 | | | 10:38 |
| | | 9 | H-5 | | | 15:41 |
| | | 10 | H-6 | | | 15:45 |
| | | 11 | H-24 | | | 15:50 |
| | | 12 | H-7 | | | 15:54 |
| | | 13 | H-12 | | | 15:56 |
| 15 | 14 | 14 | H-17 | 10ml inj / 10ul A-460 | 15:58 | 16:00 |
| 16 | +5 | 16 | LCS | 10ul A-464 / 10ul A-483 / 10ul A-460 / 5ml H ₂ O | 16:00 | |
| 17 | +6 | 17 | Blank | 10ul A-483 / 10ul A-460 / 5ml H ₂ O | | |
| | | 18 | H-7 D2 | 5ml inj / 10ul A-483 / 10ul A-460 / 5ml H ₂ O | | |
| | | 19 | LCS | 10ul A-464 / 10ul A-483 / 10ul A-460 / 5ml H ₂ O | | |
| | | 20 | Blank | 10ul A-483 / 10ul A-460 / 5ml H ₂ O | | |

SITE: Phoenix, AZ

METHOD: Med. 8010 / 8020

ANALYST: BK

| Date | Int. | Run | Nelson Cycle | Sample ID | Sample Preparation | Comment |
|--------|------|-----|--------------|-----------|---|------------|
| 6/6/94 | BK | 1 | JU061 | JCAL 1 | 10ul A-483 / 10ul A-474 / 10ul A-485 / 5ml H ₂ O | |
| | | 2 | JU062 | - 2 | 10ul A-475 / | |
| | | 3 | 3 | - 3 | 10ul A-476 / | |
| | | 4 | 4 | - 4 | 10ul A-477 / | |
| | | 5 | 5 | - 5 | 10ul A-478 / | |
| | | 6 | Blank | | 10ul A-483 / 10ul A-485 / 5ml H ₂ O | |
| | | 7 | ↓ 7 | LCS | 10ul A-464 / 10ul A-485 / 10ul A-483 / 5ml H ₂ O | |
| | | 8 | ↓ 8 | NIST LCS | 5ml inj / 10ul A-483 / 10ul A-485 / 5ml H ₂ O | |
| | | 9 | 9 | H-13 | 10 ml inj / 10ul A-483 / 10ul A-485 / 5ml H ₂ O | 14:27 |
| | | 10 | 10 | H-16 | | 14:33 (DU) |
| | | 11 | 11 | H-14 | | 14:35 |
| | | 12 | 12 | H-25 | | 14:37 |
| | | 13 | 13 | H-15 | | 14:40 |
| | | 14 | ↓ 14 | LCS | 10ul A-484 / 10ul A-483 / 10ul A-485 / 5ml H ₂ O | |
| | | 15 | ↓ 15 | Blank | 10ul A-483 / 10ul A-485 / 5ml H ₂ O | |
| | | 16 | 16 | H-16 | 5ml inj / 10ul A-483 / 10ul A-485 / 5ml H ₂ O | 19:08 |
| | | 17 | ↓ 17 | LCS | 10ul A-464 / 10ul A-485 / 10ul A-483 / 5ml H ₂ O | |
| | | 18 | ↓ 18 | Blank | 10ul A-483 / 10ul A-485 / 5ml H ₂ O | |

SITE: Phoenix A3 (sFBW)

METHOD: 8010/8020

ANALYST: RFW

| Date | Int. | Run | Nelson Cycle | Sample ID | Sample Preparation | Comment |
|--------|------|--------|--------------|-----------|---|----------|
| 7/8/94 | 25 | JL08-1 | JL081 | LCL long | 10ml A-492 / 10ml A-494 / 5ml H ₂ O | |
| | | 2 | 2 | Blank | 10ml A-492 / 10ml A-494 / 5ml H ₂ O | |
| | | 3 | 3 | LCS | 10ml A-493 / 10ml A-492 / 10ml A-494 / 5ml H ₂ O | |
| | | 4 | 4 | NIST LCS | 10ml A-492 / 10ml A-494 / 5ml inj / 5ml H ₂ O | |
| | | 5 | I-8 | | 10ml A-492 / 10ml A-494 / 5ml H ₂ O / 10ml inj | |
| | | 6 | I-2 | | | 10:00 |
| | | 7 | I-1 | | | 10:02 |
| | | 8 | I-9 | | | 10:05 |
| | | 9 | I-6 | | | 10:07 |
| | | 10 | I-5 | | | 10:10 |
| | | 11 | I-4 | | | 10:15 |
| | | 12 | I-7 | | | 10:17 |
| | | 13 | I-10 | | | 10:20 |
| | | 14 | I-3 | | | |
| | | 15 | I-5 | LCS | 10ml A-492 / 10ml A-494 / 10ml A-492 / 5ml H ₂ O | +3:25 be |
| | | 16 | I-6 | H-11 | 10ml A-492 / 10ml A-494 / 5ml H ₂ O / 10ml inj | 13:25 |
| | | 17 | I-7 | H-18 | | 13:29 |
| | | 18 | I-8 | H-19 | | 13:33 |
| | | 19 | I-9 | H-20 | | 13:35 |
| | | 20 | I-10 | H-21 | | 13:40 |
| | | 21 | I-3 | H-26 | | 13:43 |
| | | 22 | I-2 | H-27 | | 13:47 |
| | | 23 | I-4 | LCS | 10ml A-492 / 10ml A-494 / 10ml A-492 / 5ml H ₂ O | |
| | | 24 | I-5 | Blank | 10ml A-492 / 10ml A-494 / 5ml H ₂ O | |

NO 431DATE 1/10/94ANALYST Fay

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) ^{Meth} | FINAL CONC. NG/UL |
|----------|-------------------|--------------|------------|-----------------------------------|-------------------|
| 1. LLS | 425 | 200 | 50 | 1 | 10 ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO A 432DATE 03/25/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) ^{MeOH} | FINAL CONC. NG/UL |
|----------------------------|-------------------|--------------|--------------------------|-----------------------------------|-------------------|
| 1. Surr | Stock | 2000 | ^{<1000} 1 ml | 10 ml | 200 ug/ml |
| 2. 1-Chloro-2-bromopropane | | | | | |
| 3. Fluoro benzene | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

M-502-IS
1-Chloro-2-bromopropane
Lot 043-185
Exp. 8/94

 **AccuStandard**

NO A-433 433DATE 03/25/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) ^{MeOH} | FINAL CONC. NG/UL |
|-------------------------|-------------------|--------------|------------|-----------------------------------|-------------------|
| 1. ^{BK} - gass | Stock | 200 | 1 ml | 10 ml | 20 ug/ml |
| 2. VOA MIX { M601 / 602 | Stock | 200 | | | |
| 3. o,m,p-Xylene | Stock | 200 | | | |
| 4. Cis-1,2-DCE | Stock | 200 | | | |
| 5. Surrogates | A-432 | 200 | | | |

M-502B/601B

Volatile Organic

Lot 063-241

Exp. 7/94

M-601/602

Purgeable Halocarbons

Lot 033-008

M-502-60

o,m,p-Xylenes Mix

0.2 mg/mL in MeOH

Lot 023-105

M-502-28

cis-1,2-Dichloroethene

0.2 mg/mL in MeOH

Lot 113-077

**AccuStand****AccuStand****AccuStandard****AccuStandard**

| N ^o | COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) (MeOH) | FINAL CONC NG/UL |
|----------------|------------------------------|-------------------|--------------|------------|--------------------------|------------------|
| 1. | ICAL I - gases | A-433 | 20 ug/ul | 50 ul | 1 | 1 ug/ml |
| 2. | M601/602 | | | | | |
| 3. | C ₈ O, m,p-Xylene | | | | | |
| 4. | Cis-1,2-DCE | | | | | |
| 5. | Surrogate | | | ↓ | ↓ | ↓ |
| 6. | ICAL 2 | A-433 | 20 ug/ul | 100 | 1 | 2 ug/ml |
| 7. | ICAL 3 | | | 250 | | 5 |
| 8. | ICAL 4 | | | 500 | | 10 |
| 9. | ICAL 5 | | | 1000 | ↓ | 20 ↓ |

| N ^o | COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) (MeOH) | FINAL CONC NG/UL |
|----------------|--------------------|-------------------|--------------|------------|--------------------------|------------------|
| 1. | LCS stock | | 200 | 1000 ul | 10 ml | 20 ng/ml |
| 2. | | | | | | ug/ml |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | CLP-LCS-V | | | | | |
| 6. | Laboratory Control | | | | | |
| 7. | Lot 103-279 | | | | | |
| 8. | Exp. 4195 | | | | | |
| 9. | AccuSi | | | | | |

| N ^o | COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) (MeOH) | FINAL CONC NG/UL |
|----------------|----------|-------------------|--------------|------------|--------------------------|------------------|
| 1. | LCS | A439 | 20 | 500 | 1000 | 10 ug/ml |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |

| NO | DATE | ANALYST | | | |
|-----------|----------------------|-----------------|---------------|-------------------------------------|----------------------|
| A-441 | 4/26/94 | BK | | | |
| | ICAL I → ICAL 5 | | | | |
| | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | Final DILUTION VOL (ML) MECOH | FINAL CONC. NG/UL |
| 1. ICAL 1 | Grasses | A-433 | 20 ug/ml | 50 100 | 2 1 ug/ml |
| 2. | MEOH/1602 | | | | |
| 3. | CMP-Xylenes | | | | |
| 4. | Cis 1,2-DCE | | | | |
| 5. | Surr | | | | |
| 6. ICAL 2 | | A-433 | 200 100 | 2 | 2 ug/ml |
| 7. ICAL 3 | | | 250 500 | 2 | 5 ug/ml |
| 8. ICAL 4 | | | 500 1000 | 2 | 10 ug/ml |
| 9. ICAL 5 | | | 1000 2000 | 2 | 20 ug/ml |

| NO | DATE | ANALYST | | | | |
|-------|----------------------------|----------------------|-----------------|---------------|------------------------------|----------------------|
| A-446 | 4/26/94 | BK | | | | |
| | COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) (MECOH) | FINAL CONC. NG/UL |
| 1. | ZCS | A-439 | 20 ug/ml | 1 ml | 2 | 10 ug/ml |
| 2. | VC, Benzene, | | | | | |
| 3. | Bromoform | | | | | |
| 4. | CCl ₄ , 1,4-DCB | | | | | |
| 5. | 1,2-DCA, 1,2-DCP | | | | | |
| 6. | CIS-1,3-DCP * | | | | | |
| 7. | TCE, TCE, 1,1,2-TCE | | | | | |
| 8. | * 200 ug/ml cis | | | | | |
| 9. | 41 ug/ml trans. | | | | | |

| NO | DATE | ANALYST | | | | |
|-------|------------------------|----------------------|-----------------|---------------|----------------------------|----------------------|
| A-447 | 4/26/94 | BK | | | | |
| | COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) MECOH | FINAL CONC. NG/UL |
| A-447 | Surr | A-432 | 200 ug/ml | PK | 2 | 20 ug/ml |
| 2. | 1-Chloro-2-bromoethane | | | 200 ul | | |
| 3. | Fluorobenzene | | | | | |
| 4. | | | | | | |
| A-448 | Surr | A-497 | 20 ug/ml | 1 ml | 2 | 10 ug/ml |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |

No. A-449DATE 05/03/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|-----------|-------------------|--------------|------------|-------------------|-------------------|
| 1. ICAL-4 | A-433 | 20 ug/ml | 1000 | (MeOH) 2 | 10 ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A-450DATE 05/04/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------|-------------------|--------------|------------|-------------------|-------------------|
| 1. Surr | A-447 | 20 ug/ml | 1 ml | 2 | 10 ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A-451DATE 05/16/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------|-------------------|--------------|------------|-------------------|-------------------|
| 1. Surr | A-432 | 200 ug/ml | 1 ml | 2 ml | 100 ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO A 452

DATE 05/16/94

ANALYST HC

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------|----------------------|-----------------|---------------|----------------------|----------------------|
| 1. Surv | A-451 | 100 ug/ml | 20 ul | 2 ml | 10 ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No A-453

DATE 05/20/94

ANALYST

Ical stock 2013/and

No. A-454

DATE 05/20/94

ANALYST btc

A-455

- 4

-4

- 40 -

2

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2 ml 2 u

| | | | | | | |
|----|----|---|---------|------|----------|--------|
| 3. | -3 | | 500 ml | 2 ml | 5 mg/ml | 1.5 ml |
| 4. | -4 | | 1000 ml | 2 ml | 10 mg/ml | 1 ml |
| 5. | -5 | ↓ | 2000 ml | 2 ml | 20 mg/ml | 0 ml |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |

NO A-459

DATE 5/23/94

ANALYST RDW

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL(ML) | FINAL CONC. NG/UL |
|---------------------------|-------------------|--------------|------------|------------------|-------------------|
| 1. 4-Bromo fluoro benzene | Stock | 150 ng | 1000 | 10 | 15 |
| 2. Internal Standard | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO A-460

DATE 5/23/94

ANALYST RDW

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL(ML) | FINAL CONC. NG/UL |
|-------------------|-------------------|--------------|------------|------------------|-------------------|
| 1. 4-BFB | A-459 | 15 | — | 2ml | 15 |
| 2. Internal Stand | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO A-461

DATE 5/25/94

ANALYST BC

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL(ML) | FINAL CONC. NG/UL |
|----------|-------------------|--------------|------------|------------------|-------------------|
| 1. LCS | A-459 | 20μg/ml | 1ml | 2 | 10μg/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A-462DATE 5/25/94ANALYST AC

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------|-------------------|--------------|------------|-------------------|-------------------|
| 1. Surry | A-432 | 200 ng/ml | 1000 ul | 2 | 10 ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A-463DATE 5/30/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|---------------------|-------------------|--------------|------------|-------------------|-------------------|
| 1. LCS | | | | | |
| 2. | | | | | |
| 3. (Stock solution) | Stock | 200 ug/ml | 1 ml | 10 ml | 20 ug/ml |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

CLP-LCS-V
Laboratory Control
Lot 103-279
Exp. 05/95

 AccuSt

No. A-464DATE 5/30/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) (McCa) | FINAL CONC. NG/UL |
|-----------------------|-------------------|--------------|------------------|--------------------------|-------------------|
| 1. LCS | A-463 | 20 ug/ml | 1000 ul (1ml) | 2 ml | 10 ug/ml |
| 2. | | | | | |
| 3. (Working Solution) | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO. A-465DATE 5/30/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|-------------------------|--------------------|---------------------|---------------------|-------------------|---------------------|
| 1. Sum | A-432 | 200 ug/dl | 100 ul | 2 ml | 10 ug/ml |
| 2. EEB (IS.) | A-419 | 15 ug/dl | 100 ul | 2 ml | 15 ug/ml |
| 3. | 5/30/94 | BK | 15 ug/ml | 2 ml | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO. A-466DATE 5/30/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|-----------|-------------------|--------------|------------|-------------------|-------------------|
| 1. | | | | | |
| 2. ICAL-1 | A-453 | 20 ug/dl | 100 | 2 ml | 1 ug/ml |
| 3. -2 | | | 200 | | 2 |
| 4. -3 | | | 500 | | 5 |
| 5. -4 | | | 1 ml | | 10 |
| 6. -5 | | | 2 ml | | 20 |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO. A-471DATE 6/1/94ANALYST BK

VOID

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|-----------|-------------------|--------------|------------|-------------------|-------------------|
| 1. ICAL-4 | A-453 | 20 ug/ml | 1 ml | 2 ml | 10 ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A-471DATE 6/21/94

ANALYST _____

Surv stock sol.

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------|---------------------------|--------------|------------|-------------------|-------------------|
| 1. Surv | M-502-1S | 2000 | 1ml | 10 ml | 200 μ g/ml |
| 2. | | | | | |
| 3. | M-502-IS | | | | |
| 4. | 1-Chloro-2-bromopropane 8 | | | | |
| 5. | 2.0 mg/mL in MeOH | | | | |
| 6. | Lot 024-172 | | | | |
| 7. | (AccuStandard) | 25.8 | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A-472DATE 6/12/94

ANALYST _____

Surv w/I.S(CBFB)

Stock sol.

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------------------|------------------------|-------------------|------------------------------|-------------------|------------------------------------|
| 1. Surv | A-471 | 200 | 500 ul | 10 ml | 10 μ g/ml |
| 2. BFB | 150A103-150 | | 1ml | + | 15 μg/ml |
| 3. | A-481 | 6250 | 600ul | 10 ml | 15 μ g/ml |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | M-601/602 | M-502-28 | M-502-60 | M-502B/601B | RE _____ |
| Purgeable Halocarbon | cis-1,2-Dichloroethene | o,m,p-Xylenes Mix | Volatile Organic Compds Gase | | |
| Lot 053-164 | 0.2 mg/mL in MeOH | 0.2 mg/mL in MeOH | 0.2 mg/mL in MeOH | | |
| Exp. 8/94 | Lot 113-077 | Lot 023-105 | Lot 044-314 | | |

(AccuStandard)

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No. A-473DATE 6/21/94

ANALYST _____

~~BFB working solution BK~~

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|-------------------------------|-------------------|--------------|------------|-------------------|-------------------|
| 1. Calibration Standard Stock | | | | | |
| 2. | | | | | |
| 3. M601/602 vat | | 200 | 1ml | 10 ml | 20 μ g/ml |
| 4. M501/601 gases | Stock | 200 | | | |
| 5. M502-60 xylenes | | 200 | | | |
| 6. M502-28 cis-1,2-DCE | | 200 | | | |
| 7. A-471 Surv | | 200 | 10 | 10 | 10 μ g/ml |

CLP-LCS-V

Laboratory Control Sample -

Spiking Solution

0.2 mg/ml in MeOH

M-601/602

Method 601/602 - Purgeable Halocarbons and Aroma
0.2 mg/mL in methanol

M-502B/M-601B

0.2 mg/mL in MeOH

Bromomethane 10

6. _____

7.

| | | | |
|---|--|---|---|
| M-601/602 Purgeable Halocarbon Lot 053-164 Exp. 8/94 | M-502-28 cis-1,2-Dichloroethene 0.2 mg/mL in MeOH Lot 113-077 | M-502-60 o,m,p-Xylenes Mix 0.2 mg/mL in MeOH Lot 023-105 | M-502B/601B Volatile Organic Compounds Gas 0.2 mg/mL in MeOH Lot 044-314 |
|---|--|---|---|

 AccuStandard  AccuStandard  AccuStandard  AccuStandard 5 Science

NI A-473

DATE 6/21/94

ANALYST _____

~~BFB working solution BK~~

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|-------------------------------|-------------------|--------------|------------|-------------------|-------------------|
| 1. Calibration Standard Stock | | | | | |
| 2. | | | | | |
| 3. M-601/602 vat | 200 | 200 | 1 ml | 10 ml | 20 ug/ml |
| 4. M-501/601 gases | Stock | 200 | | | |
| 5. M-502-60 xylenes | | 200 | | | |
| 6. M-502-28 cis-1,2-DCE | | 200 | | | |
| 7. A-471 sum | | 200 | 10 | 10 | |

CLP-LCS-V
Laboratory Control Sample -
Spiking Solution
0.2 mg/mL in MeOH

Benzene
Bromoform
Carbon tetrachloride
1,2-Dibromoethane
1,4-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
cis-1,3-Dichloropropene
Tetrachloroethene
1,1,2-Trichloroethane
Trichloroethene
Vinyl chloride

12 components

M-601/602
Method 601/602 - Purgeable Halocarbons and Aroma
0.2 mg/mL in methanol

Benzene
Bromoform
Carbon tetrachloride
Chlorobenzene
Chloroform
Dibromochloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorobromomethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene

trans-1,2-Dichloroethylene
1,2-Dichloropropane
cis-1,3-Dichloropropylene
trans-1,3-Dichloropropyl
Ethylbenzene
Methylene chloride
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene

25 components

M-502B/M-601B
0.2 mg/mL in MeOH

Bromomethane (6)
Chloroethane (12)
Chloromethane (14)
Dichlorodifluoromethane (24)
Trichlorofluoromethane (52)
Vinyl chloride (56)

6 components

No. A-474DATE 6/21/94

ANALYST _____

A-475
A-476, A-477, A-478

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC NG/UL |
|-------------------|-------------------|---------------|------------|-------------------|------------------|
| 1. ICAL-1 | A-473 | 20 μ g/ml | 100 | 2 ml | 1 μ g/ml |
| 2. ICAL-2 | | | 200 | | 2 μ g/ml |
| 3. ICAL-3 | | | 500 | | 5 μ g/ml |
| 4. ICAL-4 | | | 1000 | | 10 μ g/ml |
| 5. ICAL-5 | | | 2000 | | 20 μ g/ml |
| 6. | | | | | |
| 7. BFB Stock A-BK | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A-475 A-479DATE 6/21/94

ANALYST _____

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC NG/UL |
|-------------------------------|-------------------|---------------|------------|-------------------|------------------|
| 1. BFB Calibration Std. Sol 1 | A-482 | | | | |
| 2. Internal Standard | A-479 | 15 μ g/ml | | 2 ml | 15 μ g/ml |
| 3. | | | | | |
| 4. Working | 2 ml vial | | | | |
| 5. | for ICAL & CCAL | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A-480DATE 6/21/94

ANALYST _____

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC NG/UL |
|---------------------|-----------------------|---------------|------------|-------------------|------------------|
| 1. BFB /SCur | A-472 | 10 μ g/ml | | 2 ml | 10 μ g/ml |
| 2. Working Solution | | 15 | | | 15 μ g/ml |
| 3. | | | | | |
| 4. | | | | | |
| 5. | Working 2ml Vial for | | | | |
| 6. | Samples & LCS, Blanks | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO. A-481DATE 6/21/94

ANALYST _____

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------|----------------------|--------------|------------|-------------------|-------------------|
| 1. BFB | Stock | 25 ug/ml | 1ml | 10 ml | 250 ug/ml |
| 2. | | (2500 ug/ml) | | | |
| 3. | | | | | |
| 4. | GARH-SS | | | | |
| 5. | 4-Bromofluorobenzene | | | | |
| 6. | Lot 013-210 | | 2 | | |
| 7. | Exp 8/94 | | | | |
| 8. | | | | | |
| 9. | | | | | |

 **AccuStandard**25 Science Park, Suite
PHONE 800-442-NO. A-482 / A-483 DATE 6/21/94

ANALYST _____

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------------------------------|-------------------|--------------|------------|-------------------|-------------------|
| 1. BFB / working solution: A-481 | 250 ug/ml | 600ul | 10 ml | 15 ug/ml | 15 ug/ml |
| 2. | | (0.6ml) | | | |
| 3. | | | | | |
| 4. (A-483) | A-481 | 250 ug/ml | 6ml | 10 ml | 150 ug/ml |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO. A-483DATE 6/21/94

ANALYST _____

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|---|-------------------|--------------|------------|-------------------|-------------------|
| 1. Sarr | A-471 | 200 | 500ul | 10ml | 10 mg/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | Working 2ml Vial | | | | |
| 5. M-502-IS | | | | | |
| 6. 1-Chloro-2-bromopropane & Flu | | | | | |
| 7. 2.0 mg/mL in MeOH | | | | | |
| 8. Lot 034-243 | | | | | |
| 9.  AccuStandard | 25 Scien | | | | |

NO A-484DATE 6/6/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL(ML) | FINAL CONC. NG/UL |
|---------------------------|-------------------|--------------|------------|------------------|-------------------|
| 1. 4-Bromo fluoro benzene | Stock | 150 ug/ml | 1 ml | 10 ml | 15 ug/ml |
| 2. Internal Stand | | | | | |
| 3. Working solution | | | | | |
| 4. Stock | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO A-485DATE 6/6/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL(ML) | FINAL CONC. NG/UL |
|---------------------------|-------------------|--------------|------------|------------------|-------------------|
| 1. 4-Bromo fluoro benzene | A-484 | 15 ug/ml | - | 2 ml | 15 ug/ml |
| 2. Internal Stand | | | | | |
| 3. Work Sing | | | | | |
| 4. 2 ml | | | | | |
| 5. Vial | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

NO DATE / / ANALYST

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL(ML) | FINAL CONC. NG/UL |
|----------|-------------------|--------------|------------|------------------|-------------------|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

W

NO A-486DATE 6/13/94ANALYST J.D.J.W.

| | COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC NG/UL |
|--------|------------|-------------------|---------------------|------------|-------------------|--------------------|
| A-486. | 1. I-CAL 1 | A-473 | 20 ^{ug/ml} | 100 | 2 ml | 1 ^{ug/ml} |
| A-487 | 2. | | | 200 | | 2 |
| A-488 | 3. | | | 500 | | 5 |
| A-489 | 4. | | | 1000 | | 10 |
| A-490 | 5. | | | 2000 | | 20 |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |

NO A-487DATE 6/13/94ANALYST R.D.W.

| | COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC NG/UL |
|----|-----------|-------------------|--------------|------------|-------------------|------------------|
| 1. | Surrogate | | | | | |
| 2. | | | | | | |
| 3. | VOID | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |

NO A-491DATE 6/19/94ANALYST B.K.

| | COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC NG/UL |
|----|----------|-------------------|--------------|------------|-------------------|----------------------|
| 1. | Sur | Stock | 2000 | 1 ml | 10 ml | 200 ^{ug/ml} |
| 2. | | M-502-1S | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |

No. A-492DATE 6/19/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------|-------------------|--------------|------------|-------------------|-------------------|
| 1. Sum | A-491 | 200 | 500 | 10 ml | 10 μ g/ml |
| 2. | - | - | - | 2 ml | 10 μ g/ml |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

M-502-IS
1-Chloro-2-bromopropane
2.0 mg/mL in MeOH
Lot 034-243

AccuStandards

No. A-493DATE 6/19/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------|-------------------|--------------|------------|-------------------|-------------------|
| 1. LCS | A-483 | 20 | 1 ml | 2 ml | 10 μ g/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

CLP-LCS-V
Laboratory Control Sample -
Spiking Solution
0.2 mg/mL in MeOH

Benzene
Bromoform
Carbon tetrachloride
1,2-Dibromoethane
1,4-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
cis-1,3-Dichloropropene
Tetrachloroethene
1,1,2-Trichloroethane
Trichloroethene
Vinyl chloride

12 components

No. A-494DATE 6/19/94ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------------|-------------------|---------------|------------|-------------------|-------------------|
| 1. 4-BFB | A-484 | 15 μ g/ml | - | 2 ml | 15 μ g/ml |
| 2. | | | | | |
| 3. Int. Stand. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

Working Standard

NO. A-495 → A-499
BK DATE 6/19/94 ANALYST BK

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------------------------|-------------------|--------------|------------|-------------------|-------------------|
| 1. ICAL + | | | | | |
| 2. ICAL Stock | | | | | |
| 3. Solution | | | | | |
| 4. M501-602 (VOA) 2 | 5 | 200 | 1 ml | 10 ml | 20 ug/ml |
| 5. M501-601B (GASED) Stock | | | | | |
| 6. M502-28 (1,2-DCE) | | | | | |
| 7. M502-60 (Xylenes) | | | | | |
| 8. Surr | A-491 | ↓ | ↓ | ↓ | ↓ |
| 9. | | | | | |

NO. _____ DATE 6/19/94 ANALYST BK

Working calibration standards

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|------------------|-------------------|--------------|------------|-------------------|-------------------|
| A-496 1. ICAL -1 | A-495 | 20 ug/ml | 100 | 2 ml | 1 ug/ml |
| A-497 2. -2 | | | 200 | 1 | 2 |
| A-498 3. -3 | | | 500 | 1 | 5 |
| ✓ A-499 4. -4 | | | 1000 | 1 | 10 |
| A-500 5. -5 | ↓ | ↓ | 2000 | ↓ | 20 ↓ |
| 6. | | | | | |

M-601/602

Purgeable Halocarbons and Ac
0.2 mg/mL in MeOH

Lot 034-131

M-502B/601B
Volatile Organic Compounds - Gases
0.2 mg/mL in MeOH
Lot 044-314

REFRIG

M-502-28
cis-1,2-Dichloroethene
0.2 mg/mL in MeOH
Lot 113-077

M-502-60
o,m,p-Xylenes Mix
0.2 mg/mL in MeOH
Lot 023-105

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AccuStandard

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AccuStand

NO. A-501 DATE 07/22/94 ANALYST AC/AP

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|---|-------------------|--------------|------------|-------------------|-------------------|
| 1. Surr Stock | | 200 ug/ml | 1 ml | 10 ml | 20 ug/ml |
| 2. (1-Chloro-2-Bromo Propane + Fluorobenzene) | | | | | |
| 3. (M-502-IS) | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. M-502-IS | | | | | |
| 8. 1-Chloro-2-bromopropane | | | | | |
| 9. 2.0 mg/mL in MeOH | | | | | |
| 9. Lot 034-243 | | | | | |

AccuStand

No. A-502

DATE 7/22/94

ANALYST H/C/AB

Ical Stock Standard

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|---|---|--|------------|-------------------|--|
| 1. M. 601 / 602 | | 200 ng/ml | 1 ml | 10 ml | 20 ng/ml |
| 2. M 502 + 60 | | | | | |
| 3. M 502B / 601B | | | | | |
| 4. M 502 - 28 | | | | | |
| 5. A 501 | | | | | |
| 6. | | | | | |
| M-502-60 o,m,p-Xylenes Mix 0.2 mg/mL in MeOH Lot 023-105 | M-502-28 cis-1,2-Dichloroether 0.2 mg/mL in MeOH Lot 054-202 | M-601/602 Purgeable Halocar 0.2 mg/mL in MeOH Lot 054-371 | | | M-502B/601B Volatile Organic Cr 0.2 mg/mL in MeOH Lot 064-086 |
| (4) AccuStand | (4) AccuStand | (4) AccuStand | | | (4) AccuStand |

No. A-503

DATE 7/22/94

ANALYST H/C/AB

Internal Standard

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|-------------------------|-------------------|--------------|------------|-------------------|-------------------|
| 1. 4-Bromo Fluorobutene | | 150 ng/ml | 1 ml | 10 ml | 15 ng/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

No. A504-A508

DATE 7/22/94

ANALYST H/C/AB

| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
|----------------|-------------------|--------------|------------|-------------------|-------------------|
| A504 1. Ical 1 | A502 | 200 ng/ml | 100 ul | 2 ml | 100 ng/ml |
| A505 2 | | | 200 ul | | 200 ng/ml |
| A506 3 | | | 200 ul | | 200 ng/ml |
| A507 4 | | | 100 ul | | 100 ng/ml |
| A508 5 | | | 200 ul | | 200 ng/ml |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

| NO | DATE | ANALYST | | | |
|-----------------------------|-------------------|--------------|------------|-------------------|-------------------|
| Surrogate Standard 100ug/ml | | | | | |
| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
| 1. Surrogate | A-501 | 200ug/ml | 10ul | 2 ml | 100ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |

| NO | DATE | ANALYST | | | |
|--|-------------------------|--------------|------------|-------------------|-------------------|
| Soil Surrogate Stock | | | | | |
| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
| 1. 1-Bromo-2-Fluorobenzene | | 2000ug/ml | 1ml | 10ml | 200ug/ml |
| 2. (2-BFB) | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | S-1704 | | | | |
| 7. | 1-Bromo-2-fluorobenzene | | | | |
| 8. | 2.0 mg/mL in MeOH | | | | |
| 9. | Lot 064-339 | | | | |
|  AccuStandard | | | | | |

| NO | DATE | ANALYST | | | |
|----------------------|-------------------|--------------|------------|-------------------|-------------------|
| Soil Surrogate | | | | | |
| COMPOUND | PARENT SOL NUMBER | PARENT NG/UL | ALIQUOT UL | DILUTION VOL (ML) | FINAL CONC. NG/UL |
| 1. 2-BFB (Surrogate) | A510 | 200ug/ml | 75ul | 10 ml | 1.5ug/ml |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |